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PERINATAL, INFANT,  
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MATERNAL MORTALITY  
1954

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PERINATAL  
INFANT  
and MATERNAL MORTALITY, 1954

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U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

Social Security Administration    Children's Bureau    1957



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## EXPLANATORY NOTE

In this report are assembled charts and tables presenting selected data on births, and on deaths among infants, children and mothers in the United States in 1954. The charts are intended to provide physicians and others concerned with the health and well being of mothers and children with a graphic record of broad aspects of national experience in natality, and in fatality of childbearing, being born, and in childhood.

Changes in these vital indices reflect national trends in conservation of maternal and child life. They provide bench marks to assist in defining new goals and to gauge progress toward them. Trends in natality, and in mortality of infants, older children, and mothers are depicted in the charts showing successive annual rates over a period of years. (Charts 1, 2, 4, 6, 11, and 13.) The mortality trends are plotted to a semilogarithmic scale to visualize percent change in rate from year to year. (Charts 4, 6, 11, and 13.) On these charts, equal slope between different years, or between different rates, represents equal percent change in rate.

States and localities may wish to compare their own record with the national experience. To this end, births, and infant, childhood, and maternal deaths to residents, are given for each State, Alaska, Hawaii, Puerto Rico, and Virgin Islands in tables 3, 4, 9, and 12. All statistics for the total United States in this report are inclusive of the continental United States except Alaska (48 States and the District of Columbia).

Important causes of infant, childhood, and maternal mortality in 1954 and a decade earlier are set forth in charts 7, 12, and 14. The available information regarding cause of death represents the opinion of the physician completing the death certificate, as to underlying cause to

which the death was due. The cause of death so determined is classified according to the groupings of the "Manual of the International Statistical Classification of Diseases, Injuries, and Causes of Death," Sixth Revision of the International Lists of Diseases and Causes of Death, 1948, World Health Organization. The International List Number for each of the groupings of causes of death shown in the charts will be found in the table corresponding to the chart in question.

Many of the charts present data for "white" and "non-white" mothers and infants separately. The category "white" includes persons reported as "white" as well as Mexican and Puerto Rican. The category "nonwhite" consists of persons reported as Negro, American Indian, Chinese, Japanese, other small "nonwhite" groups and persons of mixed "white" and "nonwhite" groups.

All data on which these charts and tables are based were furnished by the National Office of Vital Statistics, Public Health Service. The data are for the latest year in which final figures are available for all categories of information covered in this graphic presentation.

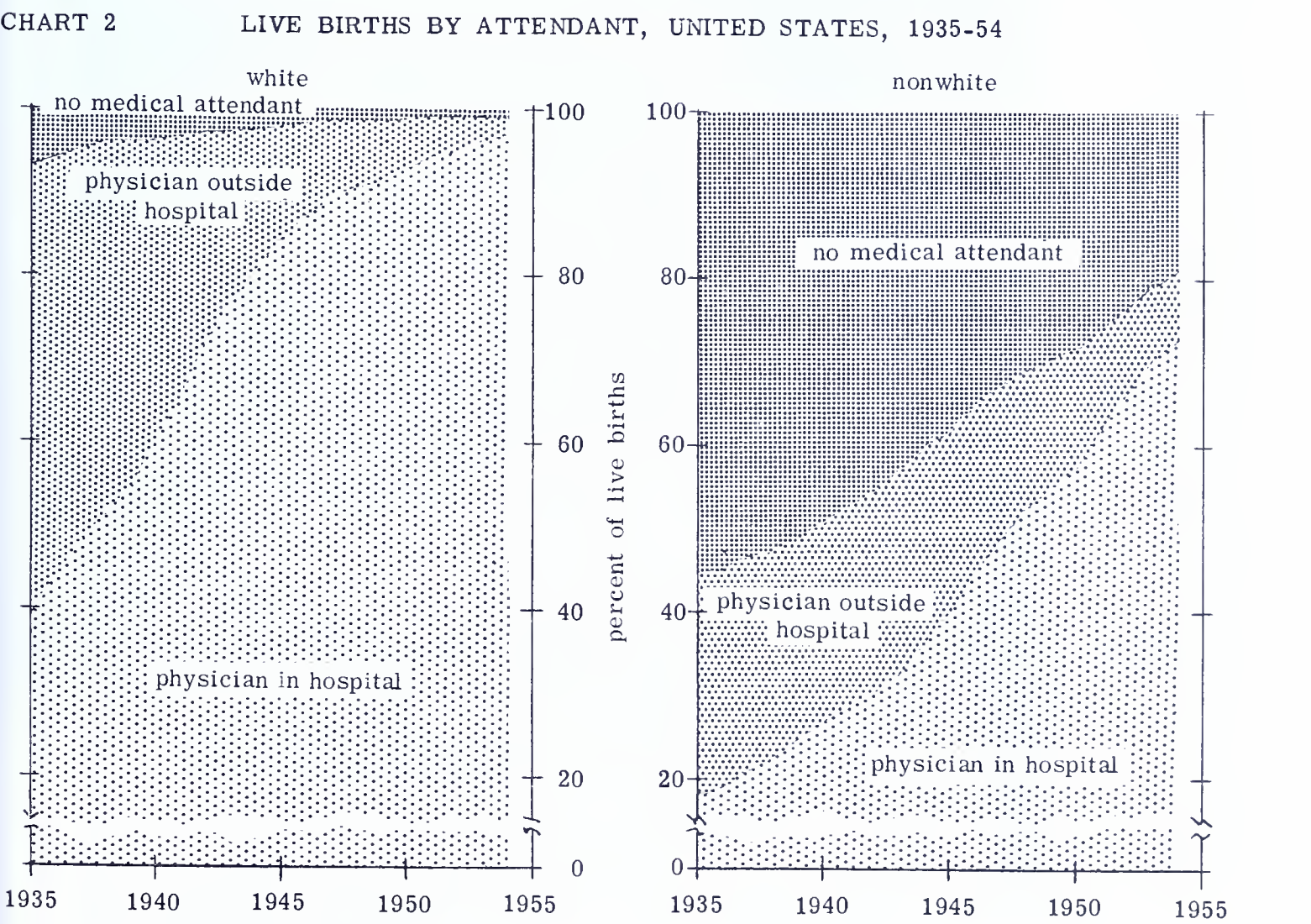
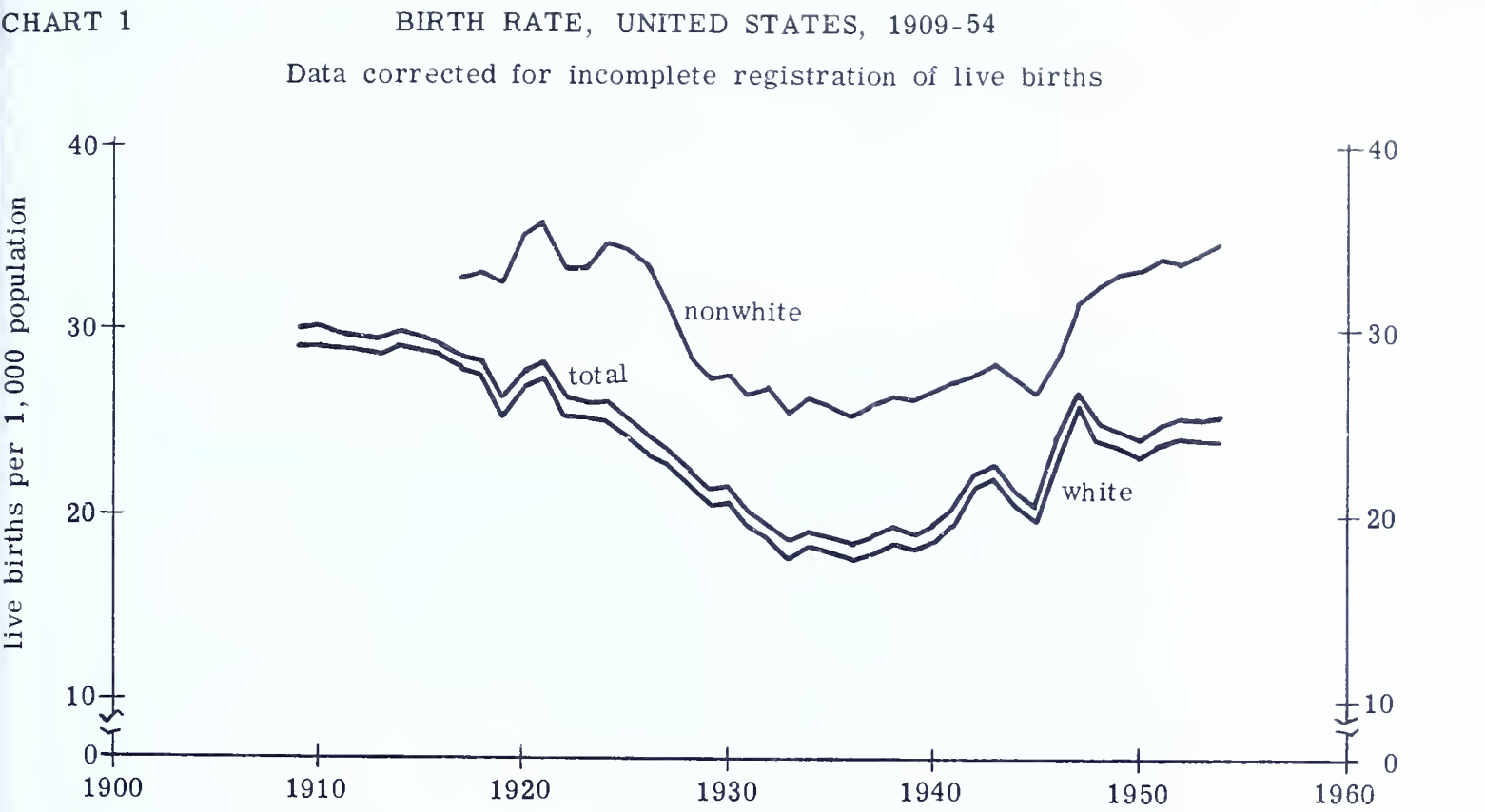


CHART 3

LIVE BIRTHS TO NONWHITE MOTHERS UNATTENDED BY A PHYSICIAN, 1954  
AS A PERCENT OF LIVE BIRTHS TO NONWHITE MOTHERS

States having 1% or more. By place of residence.

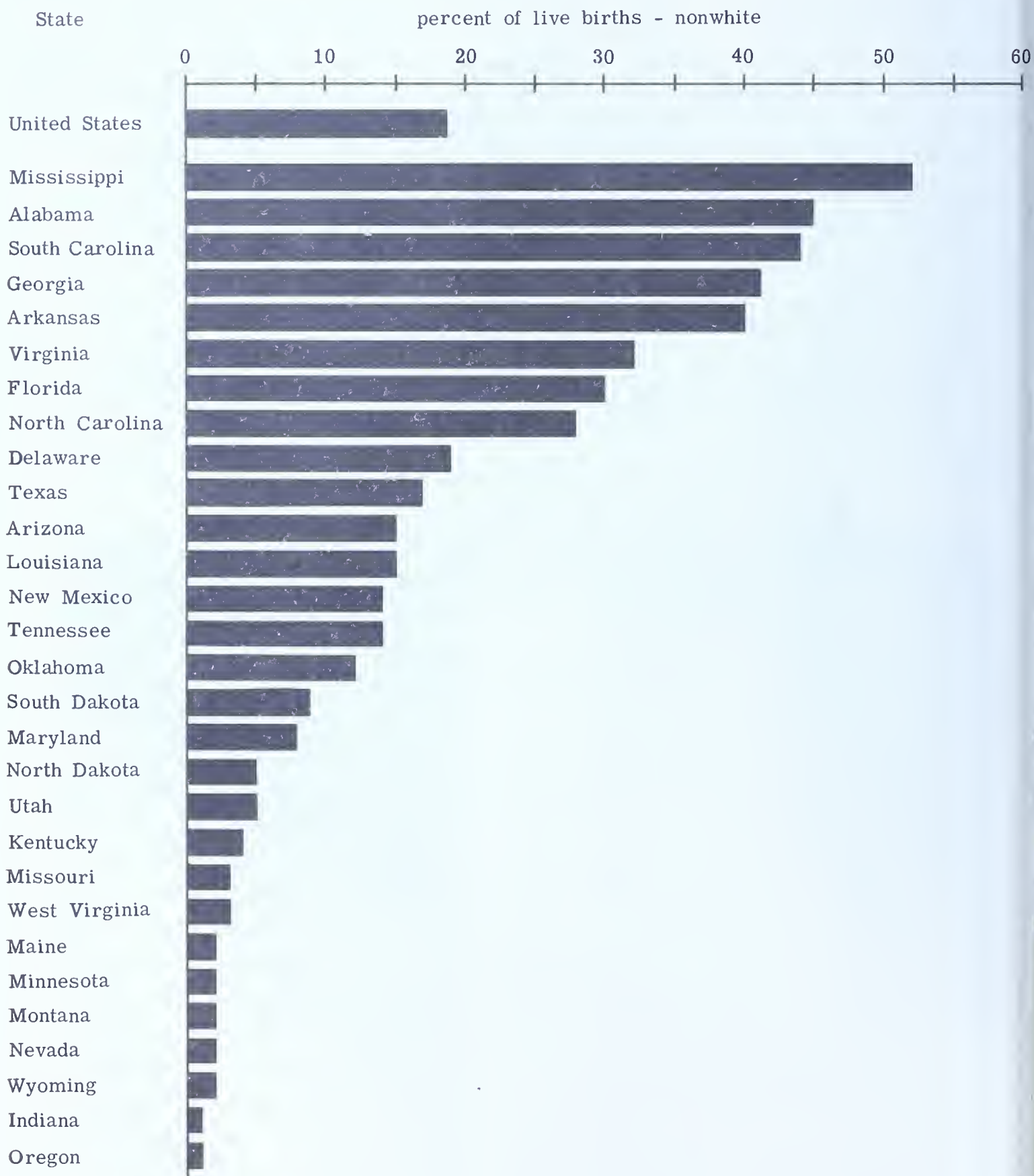
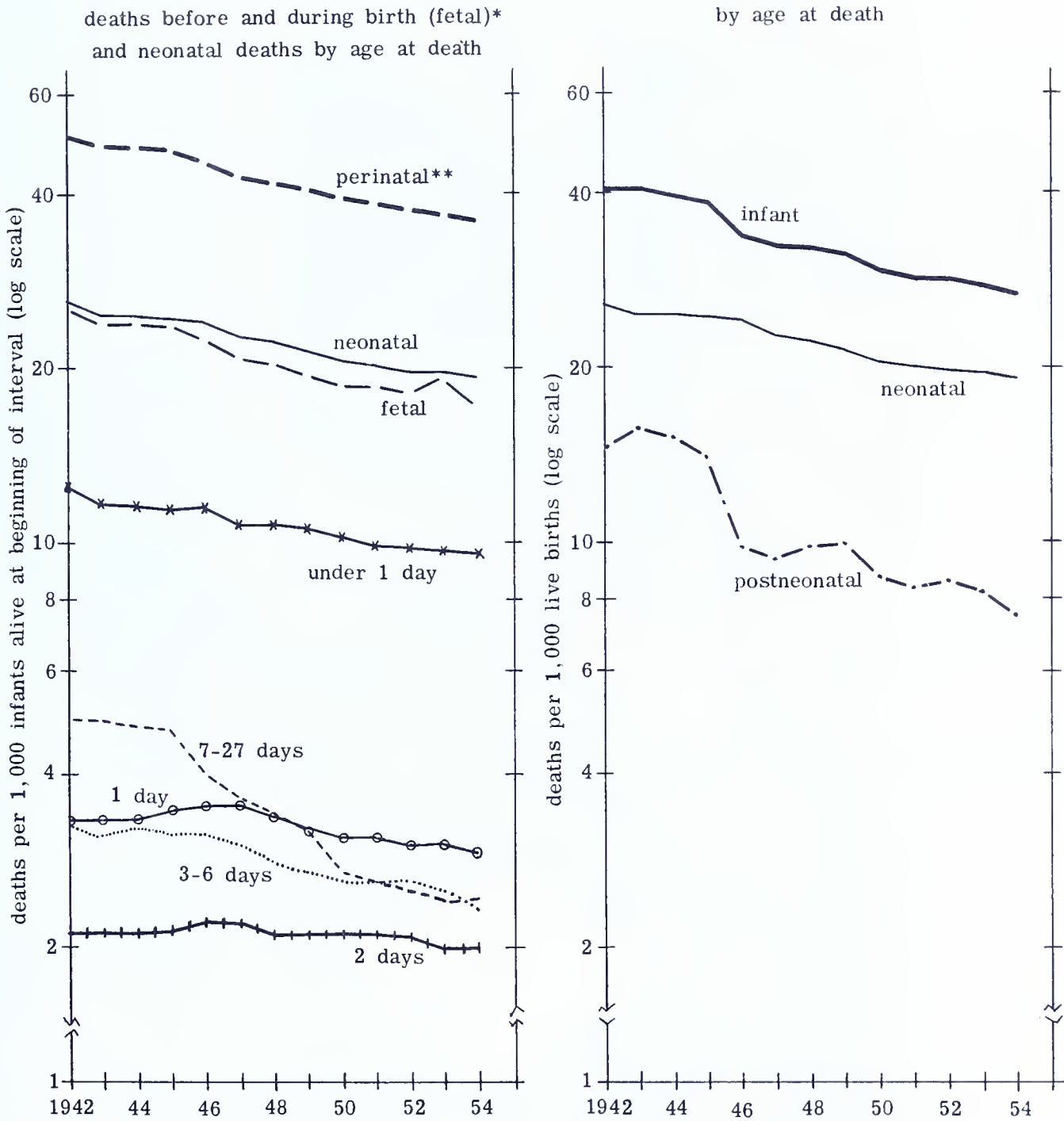


CHART 4      MORTALITY OF INFANTS BEFORE, DURING, AND AFTER BIRTH  
UNITED STATES, 1942-54

PERINATAL PERIOD

DURING INFANCY



\*In pregnancies of 20 or more weeks or duration unreported.

\*\*To the end of the neonatal period.

CHART 5      PERINATAL MORTALITY RATE TO THE  
END OF THE NEONATAL PERIOD, BY COLOR  
UNITED STATES (except Rhode Island), 1953-54

Deaths before 28 days of age  
in live born infants, and  
deaths before or during birth  
(fetal deaths) in infants born  
to mothers pregnant 20 or more  
weeks, per 1,000 births (live  
and still)

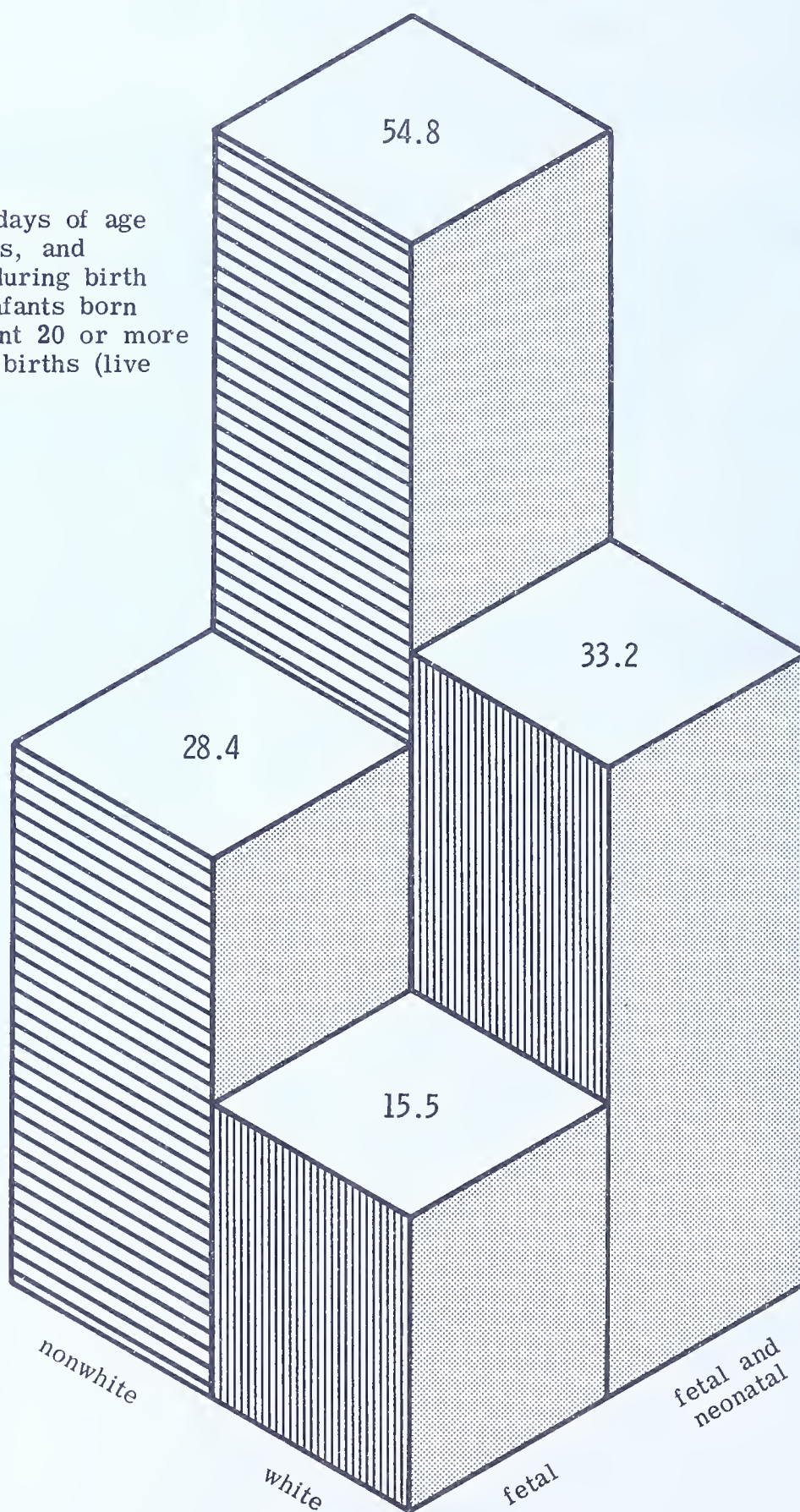
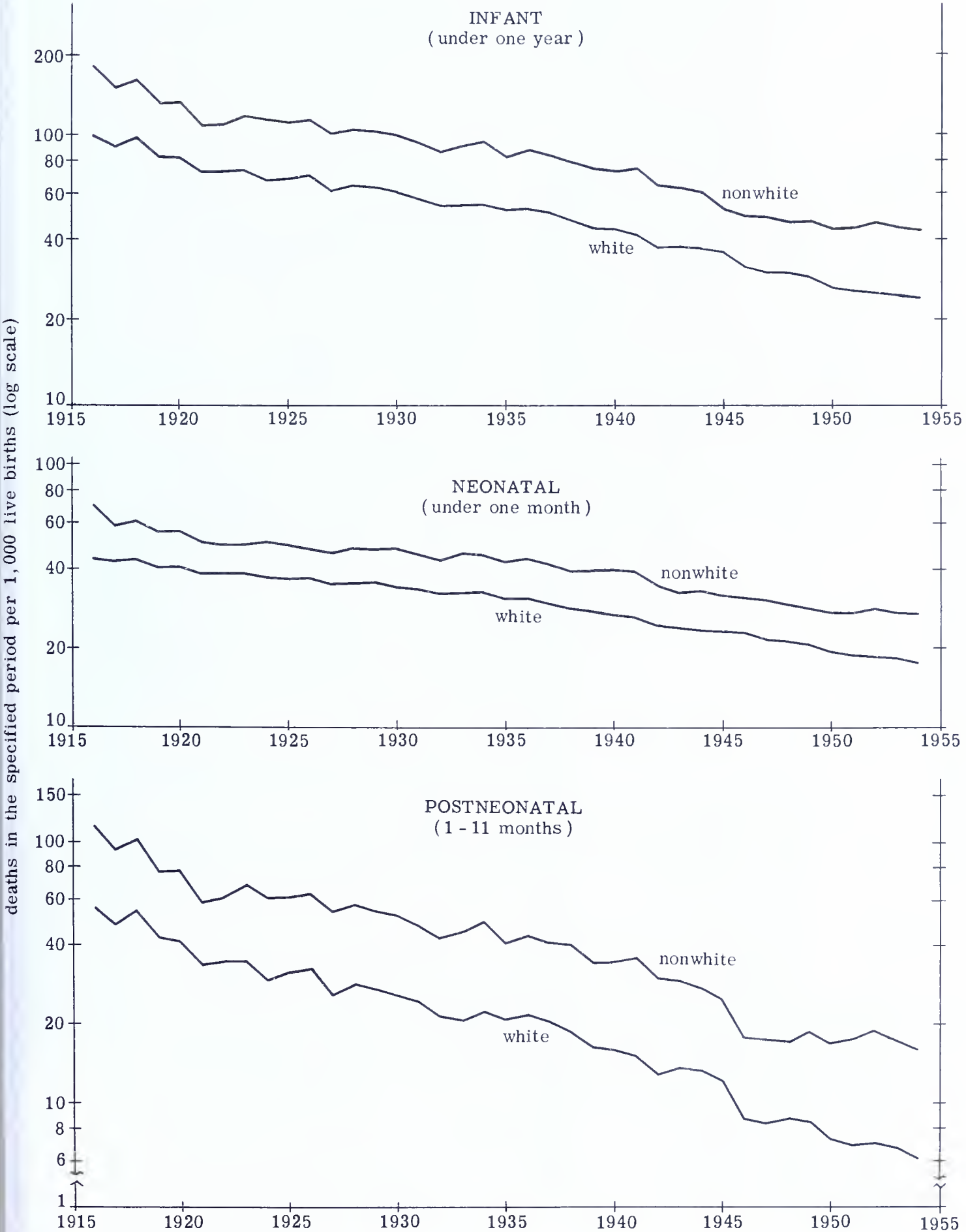


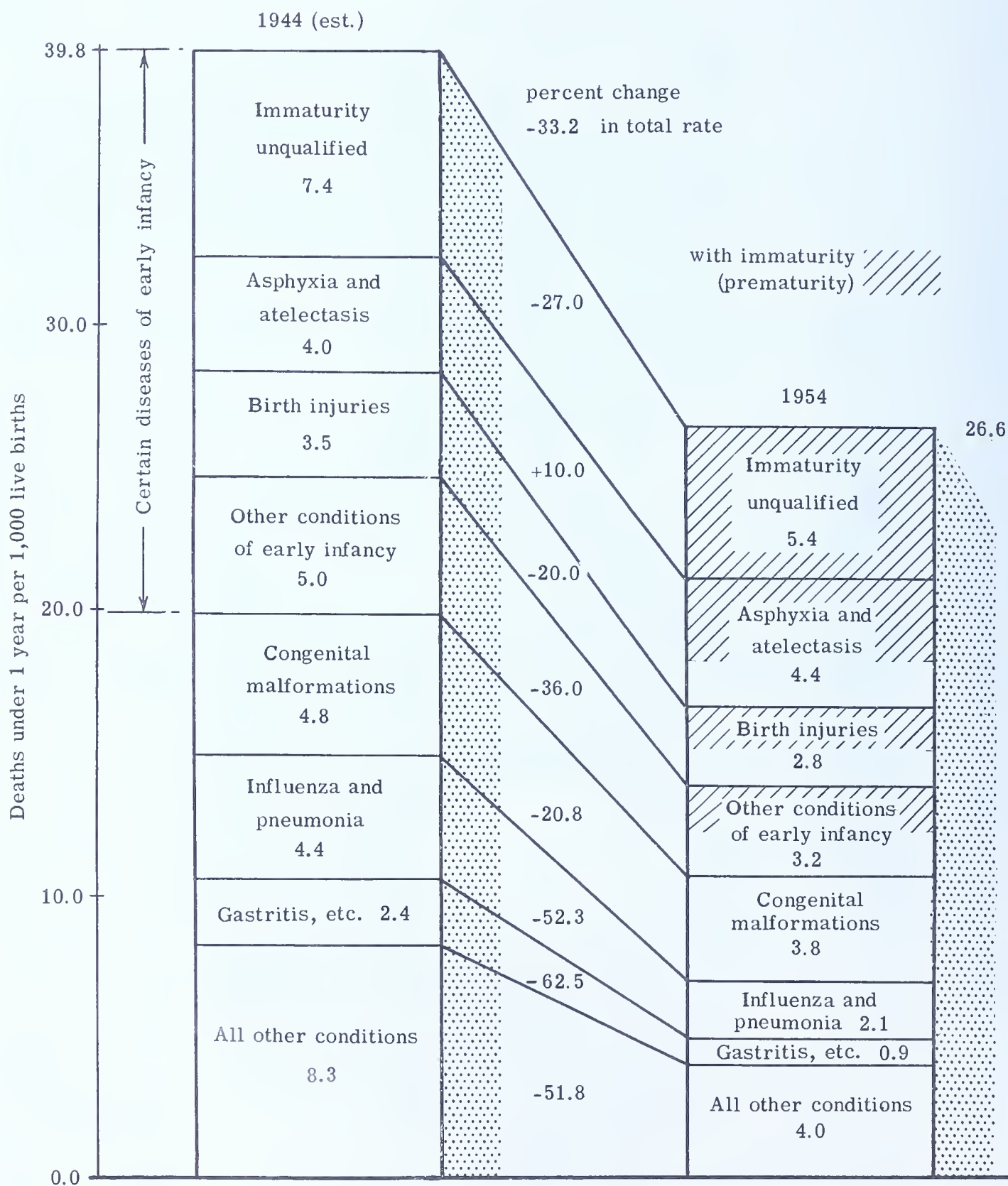
CHART 6

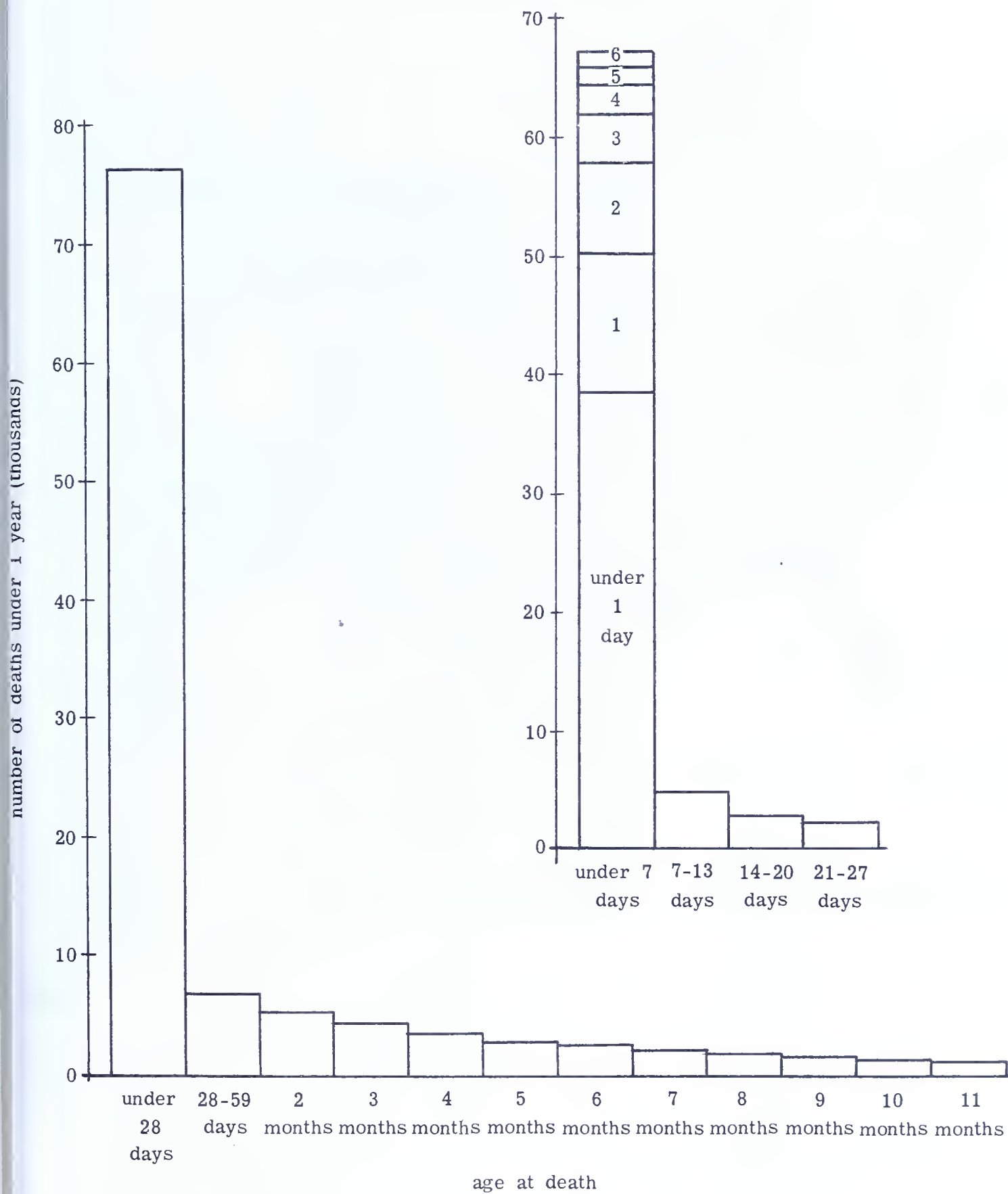
INFANT MORTALITY BY AGE; 1916-54  
(U. S. Birth Registration Area)



Main Causes by Sixth Revision of the International Lists

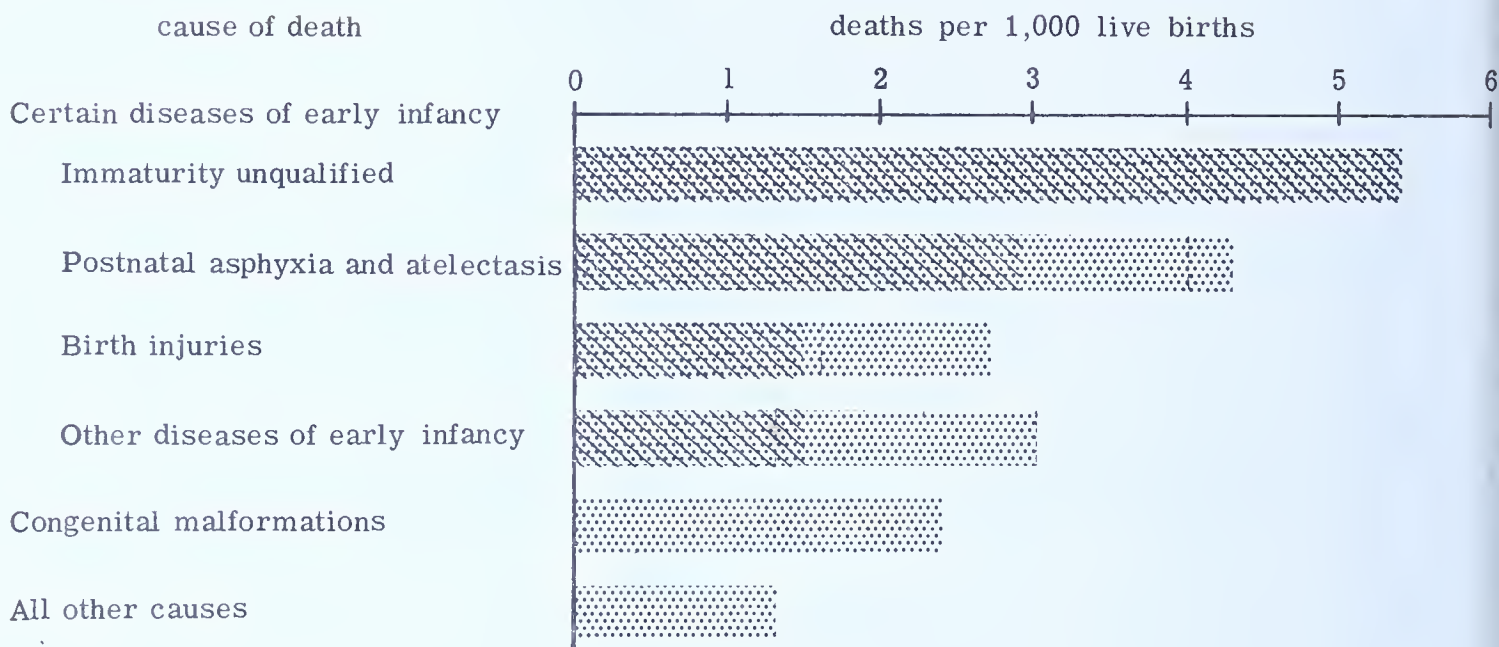
United States, 1944 and 1954



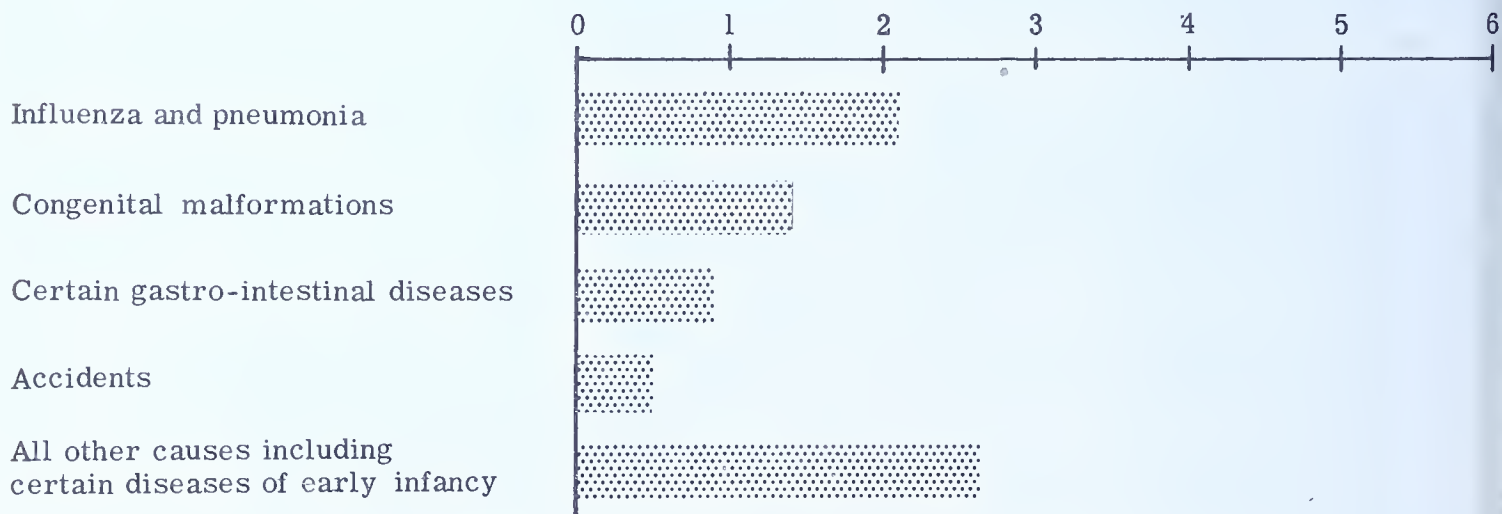


UNITED STATES, 1954

## NEONATAL

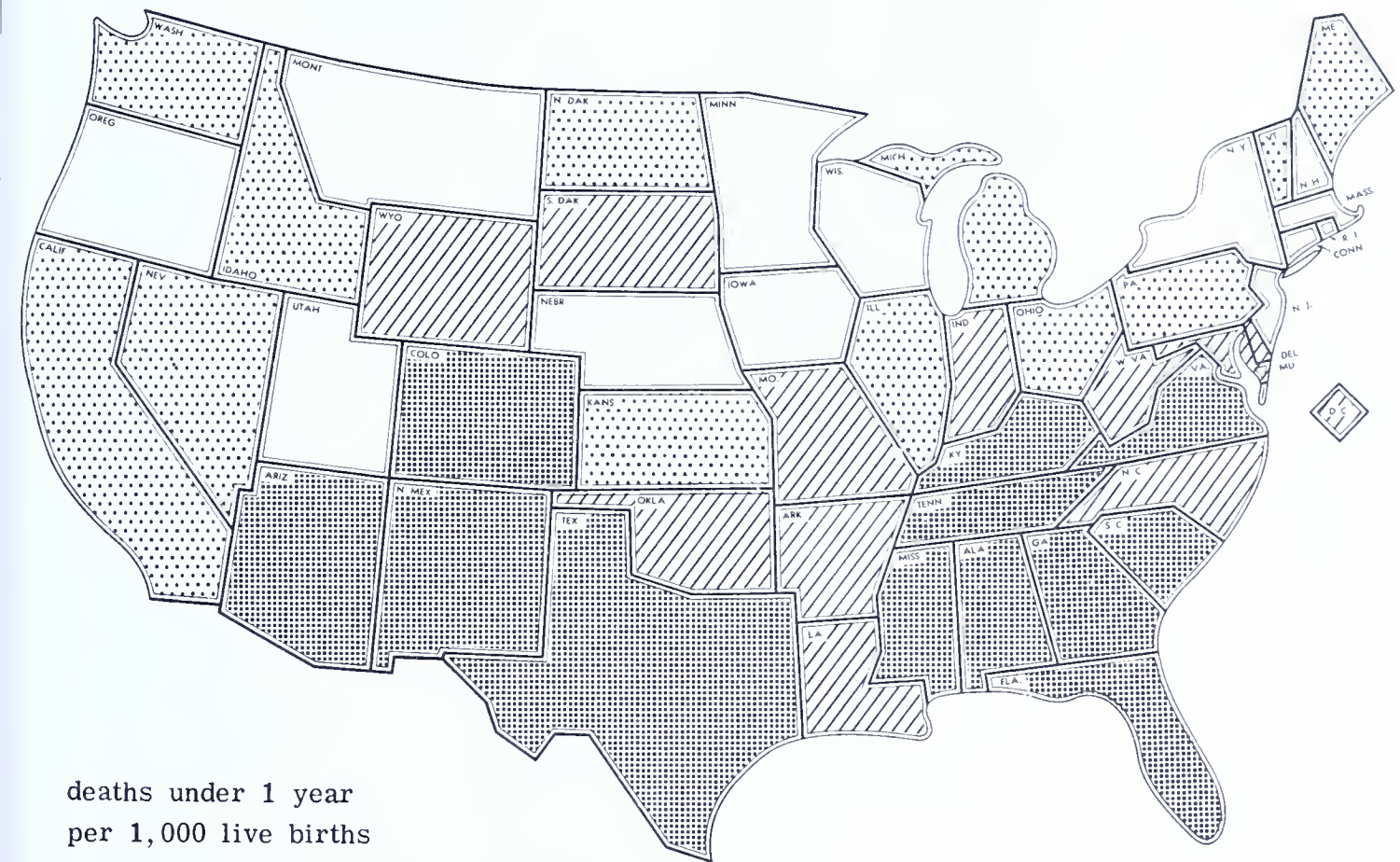


## POSTNEONATAL







with immaturity

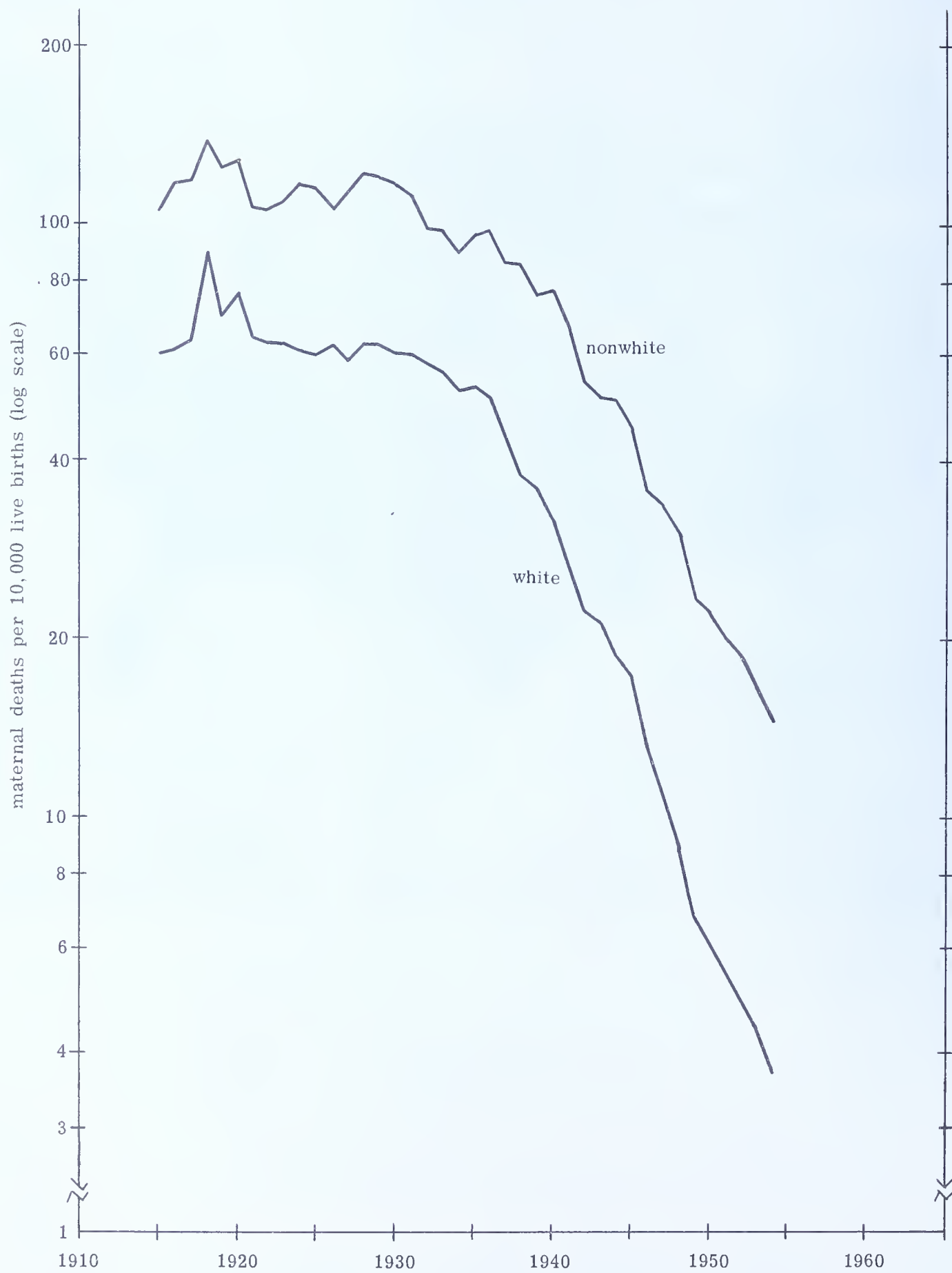




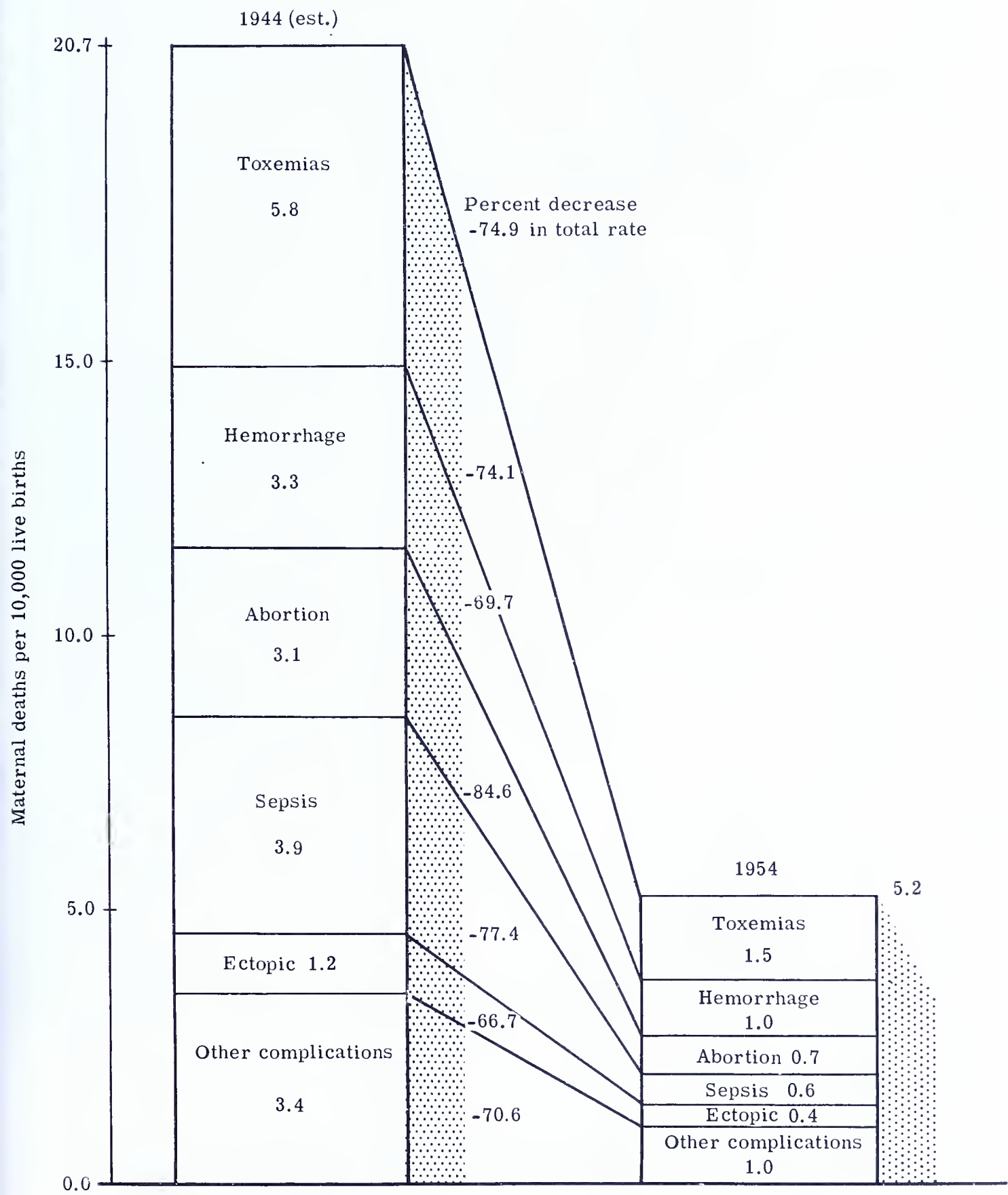
deaths under 1 year  
per 1,000 live births  
(by place of residence)

	20.8 - 23.5 (13 States)
	23.7 - 25.1 (12 States)
	25.4 - 30.2 (12 States)
	30.3 - 42.5 (12 States)

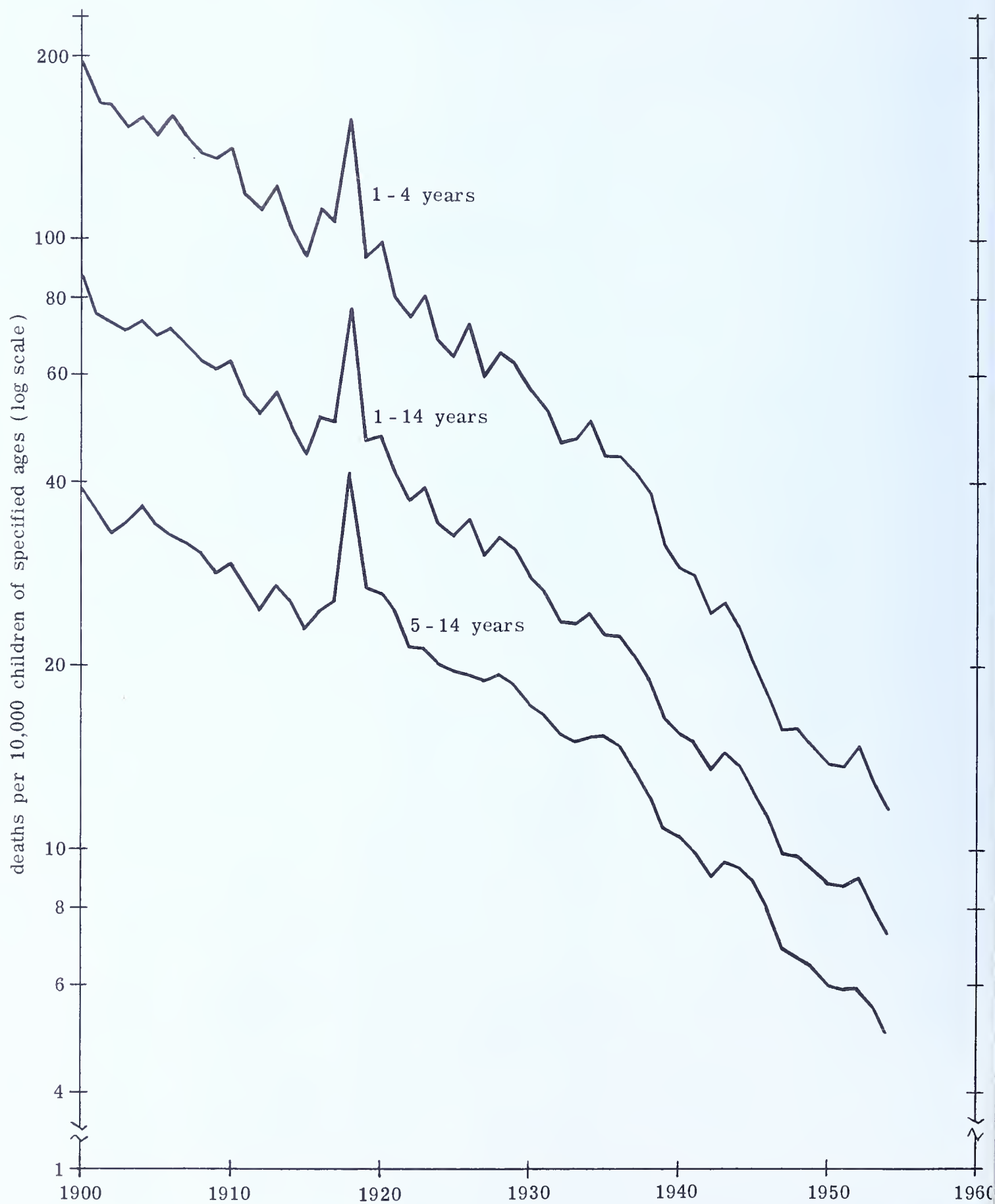
average 26.6  
median 25.1

MATERNAL MORTALITY, 1915-54  
UNITED STATES BIRTH REGISTRATION AREA

Main Causes by Sixth Revision of the International Lists  
United States, 1944 and 1954

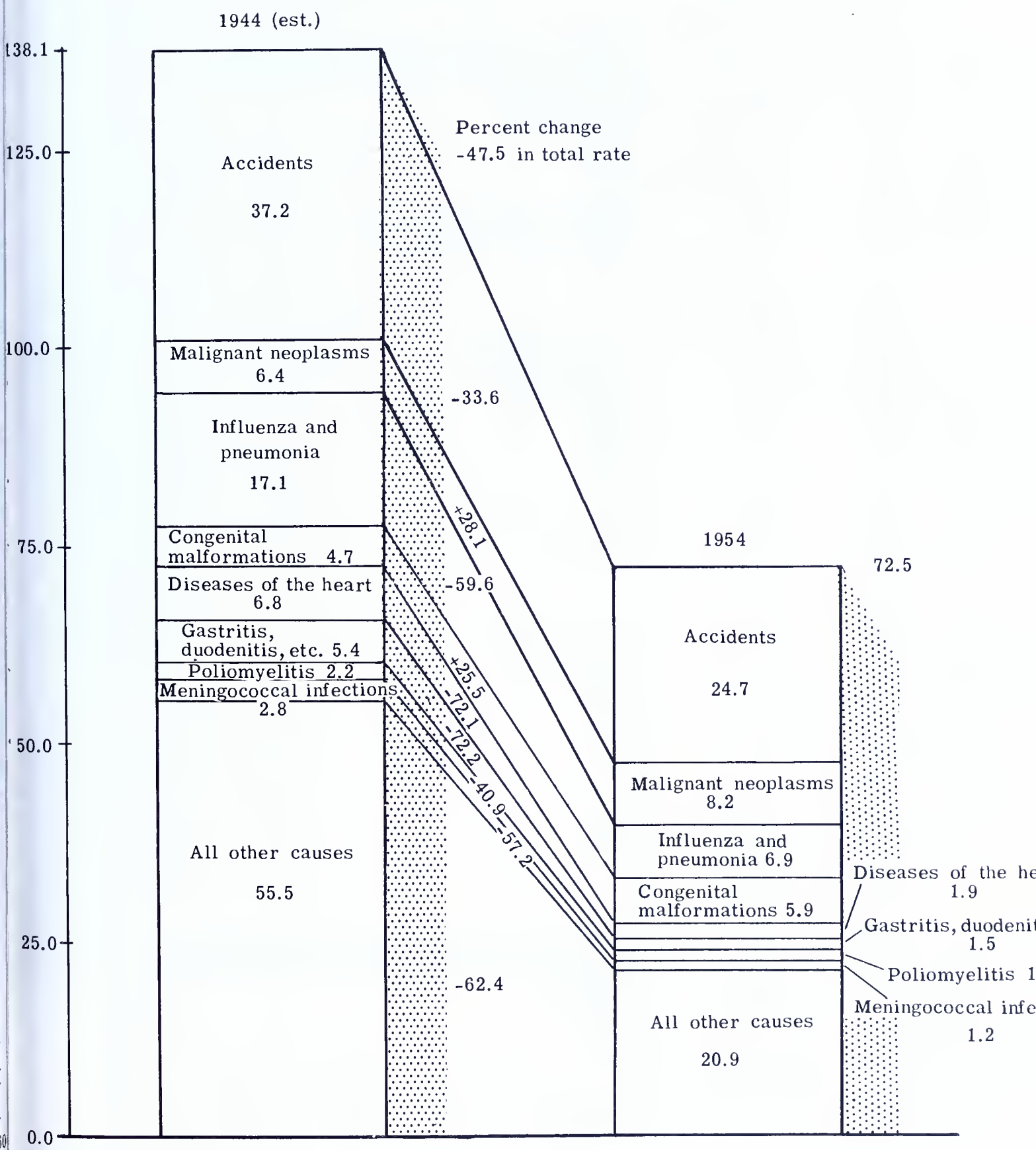


United States Death Registration Area



Main Causes by Sixth Revision of the International Lists

United States, 1944 and 1954



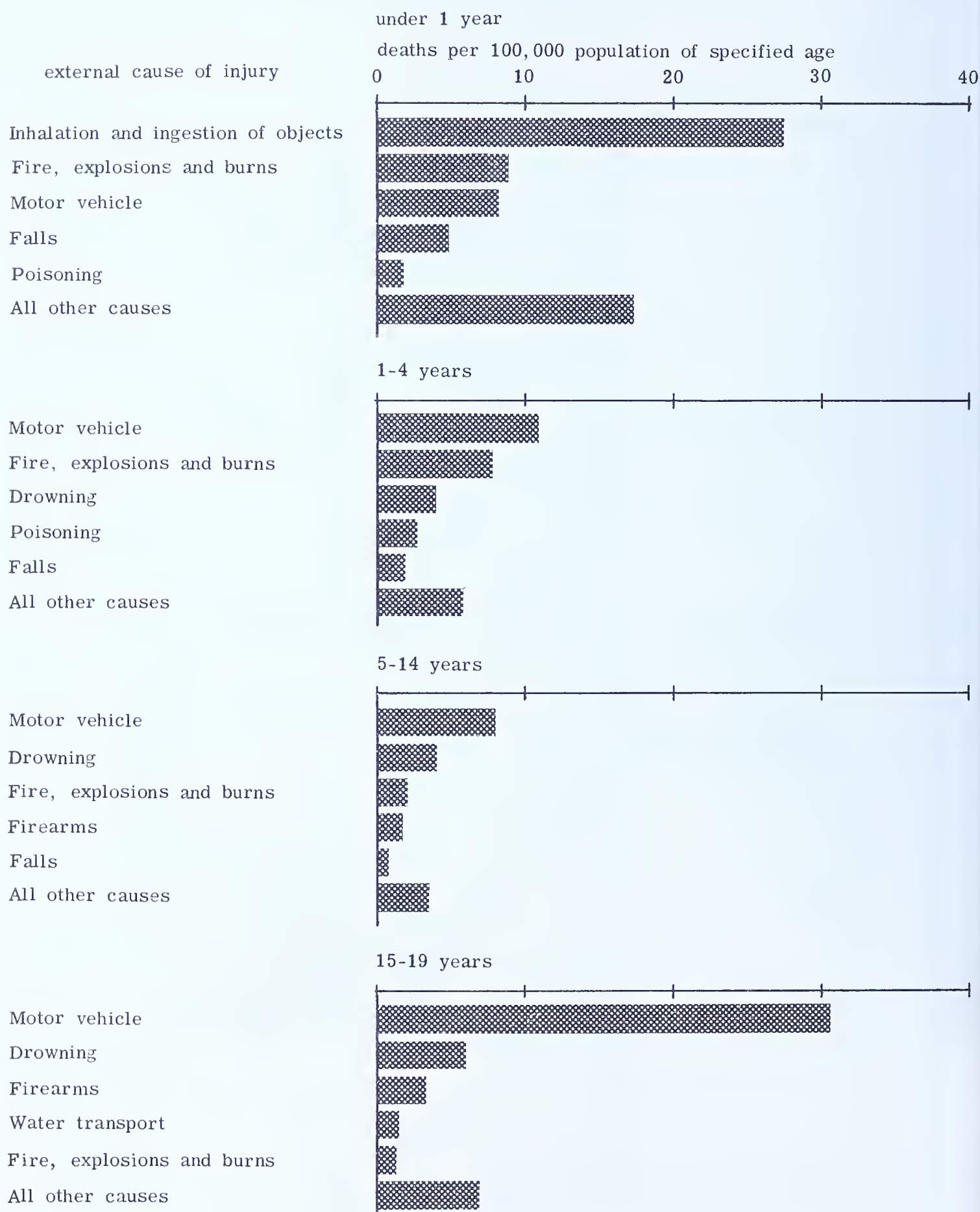


Table 1. BIRTH RATE AND TOTAL NUMBER OF LIVE BIRTHS BY COLOR  
UNITED STATES, 1909-54

Rates are per 1,000 estimated mid-year population of all ages, including armed forces overseas. All data are adjusted for underregistration of live births. Data prior to 1933 are adjusted for States not in the Birth Registration Area.

Year	Birth rate			Thousands of live births *		
	All races	White	Nonwhite	All races	White	Nonwhite
1954**	25.3	24.1	34.9	4,078	3,475	603
1953**	25.0	24.0	34.1	3,965	3,389	575
1952**	25.1	24.1	33.6	3,913	3,358	555
1951**	24.9	23.9	33.8	3,823	3,277	546
1950	24.1	23.0	33.3	3,632	3,108	524
1949	24.5	23.6	33.0	3,649	3,136	513
1948	24.9	24.0	32.4	3,637	3,141	495
1947	26.6	26.1	31.2	3,817	3,347	469
1946	24.1	23.6	28.4	3,411	2,990	420
1945	20.4	19.7	26.5	2,858	2,471	388
1944	21.2	20.5	27.4	2,939	2,545	394
1943	22.7	22.1	28.3	3,104	2,704	400
1942	22.2	21.5	27.7	2,989	2,605	384
1941	20.3	19.5	27.3	2,703	2,330	374
1940	19.4	18.6	26.7	2,559	2,199	360
1939	18.8	18.0	26.1	2,466	2,117	349
1938	19.2	18.4	26.3	2,496	2,148	348
1937	18.7	17.9	26.0	2,413	2,071	342
1936	18.4	17.6	25.1	2,355	2,027	328
1935	18.7	17.9	25.8	2,377	2,042	334
1934	19.0	18.1	26.3	2,396	2,058	338
1933	18.4	17.6	25.5	2,307	1,982	325
1932	19.5	18.7	26.9	2,440	2,099	341
1931	20.2	19.5	26.6	2,506	2,170	335
1930	21.3	20.6	27.5	2,618	2,274	344
1929	21.2	20.5	27.3	2,582	2,244	339
1928	22.2	21.5	28.5	2,674	2,325	349
1927	23.5	22.7	31.1	2,802	2,425	377
1926	24.2	23.1	23.4	2,839	2,441	398
1925	25.1	24.1	34.2	2,909	2,506	403
1924	26.1	25.1	34.6	2,979	2,577	401
1923	26.0	25.2	33.2	2,910	2,531	380
1922	26.2	25.4	33.2	2,882	2,507	375
1921	28.1	27.3	35.8	3,055	2,657	398
1920	27.7	26.9	35.0	2,950	2,566	383
1919	26.1	25.3	32.4	2,740	2,387	353
1918	28.2	27.6	33.0	2,948	2,588	360
1917	28.5	27.9	32.9	2,944	2,587	357
1916	29.1	28.5	--	2,964	2,599	--
1915	29.5	28.9	--	2,965	2,594	--
1914	29.9	29.3	--	2,966	2,588	--
1913	29.5	28.8	--	2,869	2,497	--
1912	29.8	29.0	--	2,840	2,467	--
1911	29.9	29.1	--	2,809	2,435	--
1910	30.1	29.2	--	2,777	2,401	--
1909	30.0	29.2	--	2,718	2,344	--

\* Numbers of births are estimates rounded to the nearest thousand without being adjusted to totals, which are independently rounded.

\*\* Based on a 50-percent sample.

TABLE 2. PERCENT OF BIRTHS BY ATTENDANT AND COLOR, AND NUMBER OF REGISTERED LIVE BIRTHS BY COLOR: UNITED STATES, 1935-54

Year and color	PERCENT DISTRIBUTION OF BIRTHS			Number of registered live births
	In hospital (physician attendant assumed)	Attended by physician outside hospital	Attended by midwife or other nonmedical attendant	
<u>Total</u>				
1954	93.6	2.9	3.5	4,017,362
1953	92.8	3.5	3.7	3,902,120
1952	91.7	4.2	4.1	3,846,986
1951	90.0	5.5	4.5	3,750,850
1950	88.0	7.1	4.9	3,554,149
1949	86.7	8.1	5.1	3,559,529
1948	85.6	9.1	5.3	3,535,068
1947	84.8	10.1	5.1	3,699,940
1946	82.4	12.2	5.4	3,288,672
1945	78.8	14.7	6.4	2,735,456
1944	75.6	17.7	6.8	2,794,800
1943	72.1	21.0	7.0	2,934,860
1942	67.9	24.7	7.4	2,808,996
1941	61.2	30.2	8.6	2,513,427
1940	55.8	35.0	9.3	2,360,399
1939	51.1	39.1	9.7	2,265,588
1938	48.0	41.8	10.1	2,286,962
1937	44.8	44.6	10.6	2,203,337
1936	40.9	47.3	11.7	2,144,790
1935	36.9	50.6	12.5	2,155,105
<u>White</u>				
1954	97.0	2.1	0.9	3,443,630
1953	96.5	2.6	0.9	3,356,772
1952	95.7	3.2	1.1	3,322,658
1951	94.4	4.4	1.2	3,237,072
1950	92.8	5.9	1.3	3,063,627
1949	91.6	6.9	1.4	3,083,721
1948	90.4	8.1	1.5	3,080,316
1947	89.3	9.2	1.5	3,274,620
1946	87.1	11.2	1.6	2,913,645
1945	84.3	13.7	2.0	2,395,563
1944	81.0	16.9	2.1	2,454,700
1943	77.2	20.6	2.2	2,594,763
1942	72.7	24.8	2.5	2,486,934
1941	65.7	31.2	3.1	2,204,903
1940	59.9	36.5	3.6	2,067,953
1939	55.0	41.1	3.9	1,982,671
1938	51.6	44.2	4.2	2,005,955
1937	48.2	47.3	4.5	1,928,437
1936	43.9	50.4	5.7	1,881,883
1935	39.6	54.0	6.4	1,888,012
<u>Nonwhite</u>				
1954	73.1	7.8	19.1	573,732
1953	70.3	9.0	20.7	545,348
1952	66.4	10.6	23.0	524,328
1951	62.4	12.3	25.4	513,778
1950	57.9	14.3	27.8	490,522
1949	55.1	15.9	29.0	475,808
1948	52.9	16.6	30.6	454,752
1947	49.7	17.7	32.6	425,320
1946	45.2	20.0	34.8	375,027
1945	40.2	21.7	38.1	339,893
1944	37.0	23.1	39.9	340,100
1943	33.3	24.0	42.7	340,097
1942	30.6	24.0	45.3	322,062
1941	29.0	23.3	47.7	308,524
1940	26.7	24.1	49.2	292,446
1939	24.3	24.8	50.9	282,917
1938	22.7	25.0	52.3	281,007
1937	21.0	25.5	53.5	274,900
1936	19.5	25.5	55.0	262,907
1935	18.2	26.4	55.4	267,093

TABLE 3. NUMBER OF BIRTHS BY COLOR. PERCENT THAT WERE NONWHITE  
UNITED STATES, EACH STATE AND TERRITORY, AND SPECIFIED POSSESSIONS, 1954

(By place of residence. Based on 50 percent sample of registered live births.)

State	Number of births			Percent that were nonwhite
	Total	White	Nonwhite	
United States <u>1</u> /....	4,017,362	3,443,630	573,732	14.3
Alabama.....	82,458	50,684	31,774	38.5
Alaska <u>2</u> /.....	7,038	5,213	1,825	25.9
Arizona.....	26,820	22,744	4,076	15.2
Arkansas.....	43,428	30,156	13,272	30.6
California.....	306,290	277,866	28,424	9.3
Colorado.....	38,918	37,648	1,270	3.3
Connecticut.....	50,396	47,996	2,400	4.8
Delaware.....	9,694	7,958	1,736	17.9
District of Columbia.....	21,012	10,054	10,958	52.2
Florida.....	84,934	61,700	23,234	27.4
Georgia.....	100,420	64,388	36,032	35.9
Hawaii <u>2</u> /.....	16,202	3,722	12,480	77.0
Idaho.....	17,174	16,878	296	1.7
Illinois.....	217,420	188,594	28,826	13.3
Indiana.....	109,004	101,368	7,636	7.0
Iowa.....	63,198	62,524	674	1.1
Kansas.....	53,478	50,788	2,690	5.0
Kentucky.....	75,116	69,172	5,944	7.9
Louisiana.....	86,446	52,302	34,144	39.5
Maine.....	22,612	22,500	112	0.5
Maryland.....	66,378	52,288	14,090	21.2
Massachusetts.....	107,770	104,856	2,914	2.7
Michigan.....	192,332	171,552	20,780	10.8
Minnesota.....	80,976	79,746	1,230	1.5
Mississippi.....	64,672	28,902	35,770	55.3
Missouri.....	93,608	82,476	11,132	11.9
Montana.....	17,318	16,394	924	5.3
Nebraska.....	33,852	32,712	1,140	3.4
Nevada.....	5,846	5,228	618	10.6
New Hampshire.....	12,254	12,226	28	0.2
New Jersey.....	118,398	106,048	12,350	10.4
New Mexico.....	25,638	23,258	2,380	9.3
New York.....	335,510	301,522	33,988	10.1
North Carolina.....	114,846	76,680	38,166	33.2
North Dakota.....	17,410	16,930	480	2.8
Ohio.....	222,654	201,390	21,264	9.6
Oklahoma.....	51,230	45,090	6,140	12.0
Oregon.....	38,658	37,680	978	2.5
Pennsylvania.....	244,682	222,916	21,766	8.9
Puerto Rico <u>2</u> /.....	77,832	58,400	19,432	25.0
Rhode Island.....	18,046	17,556	490	2.7
South Carolina.....	65,140	36,558	28,582	43.9
South Dakota.....	18,166	17,208	958	5.3
Tennessee.....	85,834	67,680	18,154	21.2
Texas.....	239,220	206,340	32,880	13.7
Utah.....	23,500	23,036	464	2.0
Vermont.....	9,298	9,274	24	0.3
Virgin Islands <u>2</u> /.....	879	49	830	94.4
Virginia.....	95,210	70,892	24,318	25.5
Washington.....	62,744	60,098	2,646	4.2
West Virginia.....	46,544	43,816	2,728	5.9
Wisconsin.....	91,872	89,282	2,590	2.8
Wyoming.....	8,938	8,676	262	2.9

1/ Exclusive of Alaska, Hawaii, Puerto Rico, and Virgin Islands.

2/ By place of occurrence.

Table 4. PERCENT OF BIRTHS BY ATTENDANT AND COLOR  
UNITED STATES, EACH STATE AND TERRITORY, AND SPECIFIED POSSESSIONS, 1954

In Puerto Rico and Virgin Islands, births in hospitals may be attended by midwives or persons other than physicians. For all other areas, it is assumed that births in hospitals are attended by physicians.

(By place of residence. Based on 50 percent sample of registered live births.)

State	Total			White			Nonwhite		
	Physician		No medical attend-ant	Physician		No medical attend-ant	Physician		No medical attend-ant
	In hospi-tal	Outside hospi-tal		In hospi-tal	Outside hospi-tal		In hospi-tal	Outside hospi-tal	
United States 1/	94	3	3	97	2	1	73	8	19
Alabama.....	74	7	19	92	6	2	45	10	45
Alaska 2/.....	88	1	11	99	0	1	58	1	41
Arizona.....	94	2	4	96	2	2	84	1	15
Arkansas.....	76	11	13	92	7	1	42	18	40
California.....	99	1	0	99	1	0	98	1	1
Colorado.....	97	2	1	97	2	1	97	2	1
Connecticut.....	100	0	0	100	0	0	100	0	0
Delaware.....	95	1	4	99	1	0	79	2	19
District of Columbia..	99	1	0	100	0	0	98	2	0
Florida.....	88	3	9	98	1	1	62	8	30
Georgia.....	81	4	15	97	2	1	52	7	41
Hawaii 2/.....	98	1	1	100	0	0	98	0	2
Idaho.....	99	1	0	99	1	0	98	2	0
Illinois.....	97	3	0	99	1	0	88	11	1
Indiana.....	98	2	0	98	2	0	92	7	1
Iowa.....	99	1	0	99	1	0	97	3	0
Kansas.....	99	1	0	99	1	0	93	7	0
Kentucky.....	86	10	4	87	9	4	78	18	4
Louisiana.....	91	2	7	98	1	1	81	4	15
Maine.....	96	4	0	96	4	0	95	3	2
Maryland.....	95	3	2	98	2	0	87	5	8
Massachusetts.....	99	1	0	99	1	0	99	1	0
Michigan.....	99	1	0	99	1	0	97	3	0
Minnesota.....	99	1	0	99	1	0	97	1	2
Mississippi.....	60	10	30	94	5	1	33	15	52
Missouri.....	94	5	1	95	5	0	90	7	3
Montana.....	99	1	0	99	1	0	97	1	2
Nebraska.....	99	1	0	99	1	0	98	2	0
Nevada.....	99	1	0	99	1	0	96	2	2
New Hampshire.....	99	1	0	99	1	0	100	0	0
New Jersey.....	99	1	0	99	1	0	97	3	0
New Mexico.....	85	8	7	85	8	7	84	2	14
New York.....	99	1	0	99	1	0	97	3	0
North Carolina.....	83	7	10	96	3	1	56	16	28
North Dakota.....	99	1	0	99	1	0	95	0	5
Ohio.....	98	2	0	98	2	0	98	2	0
Oklahoma.....	94	4	2	96	3	1	79	9	12
Oregon.....	99	1	0	99	1	0	97	2	1
Pennsylvania.....	98	2	0	98	2	0	97	3	0
Puerto Rico 2/.....	48	2	50	47	2	51	52	1	47
Rhode Island.....	100	0	0	100	0	0	100	0	0
South Carolina.....	72	8	20	96	3	1	42	14	44
South Dakota.....	98	1	1	99	1	0	90	1	9
Tennessee.....	90	6	4	93	5	2	74	12	14
Texas.....	87	5	8	89	5	6	77	6	17
Utah.....	99	1	0	99	1	0	95	0	5
Vermont.....	98	2	0	98	2	0	100	0	0
Virgin Islands 2/.....	89	0	11	94	0	6	89	0	11
Virginia.....	85	6	9	94	4	2	58	10	32
Washington.....	99	1	0	100	0	0	98	1	1
West Virginia.....	88	10	2	89	9	2	78	19	3
Wisconsin.....	99	1	0	99	1	0	97	3	0
Wyoming.....	99	1	0	99	1	0	98	0	2

1/ Exclusive of Alaska, Hawaii, Puerto Rico and Virgin Islands.

2/ By place of occurrence.

TABLE 5. PERINATAL MORTALITY TO THE END OF THE FIRST WEEK, AND TO THE END OF THE FIRST MONTH OF POSTNATAL LIFE, UNITED STATES: 1942-54 <sup>1/</sup>

Deaths of live born infants in specified age groups, and deaths before or during birth (fetal deaths) of infants born to mothers pregnant 20 or more weeks, or duration unreported

YEAR	PERINATAL PERIOD <sup>2/</sup> TO END OF SPECIFIED POSTNATAL AGE GROUP					
	First month			First week		
	Total <sup>3/</sup>	Before or during birth (fetal death) <sup>4/</sup>	Under 28 days (neonatal death) <sup>5/</sup>	Total <sup>6/</sup>	Before or during birth (fetal death) <sup>4/</sup>	Under 7 days <sup>7/</sup>
Rate per 1,000 infants alive at the beginning of the interval specified						
1954.....	35.9	17.2	19.1	33.6	17.2	16.8
1953.....	36.7	17.5	19.6	34.3	17.5	17.1
1952.....	37.4	18.0	19.8	34.9	18.0	17.3
1951.....	38.1	18.5	20.0	35.6	18.5	17.5
1950.....	39.0	18.8	20.5	36.4	18.8	17.8
1949.....	40.5	19.4	21.4	37.4	19.4	18.3
1948.....	41.9	20.2	22.2	38.7	20.2	18.9
1947.....	42.9	20.6	22.8	39.5	20.6	19.3
1946.....	45.8	22.3	24.0	41.9	22.3	20.1
1945.....	47.2	23.4	24.3	42.7	23.4	19.7
1944.....	48.0	23.9	24.7	43.4	23.9	20.0
1943.....	48.1	23.9	24.7	43.4	23.9	20.0
1942.....	50.0	25.0	25.7	45.3	25.0	20.9
Number of deaths						
1954.....	146,833	70,109	76,724	137,462	70,109	67,353
1953.....	145,725	69,393	76,332	136,177	69,393	66,784
1952.....	146,700	70,447	76,253	136,827	70,447	66,380
1951.....	145,761	70,569	75,192	136,082	70,569	65,513
1950.....	141,117	68,262	72,855	131,679	68,262	63,417
1949.....	146,910	70,584	76,326	135,758	70,584	65,174
1948.....	151,264	72,838	78,426	139,631	72,838	66,793
1947.....	152,213	77,917	84,296	149,202	77,917	71,285
1946.....	153,928	74,849	79,079	140,897	74,849	66,048
1945.....	132,106	65,513	66,593	119,505	65,513	53,992
1944.....	137,370	68,374	68,996	124,144	68,374	55,770
1943.....	144,505	71,873	72,632	130,453	71,873	58,580
1942.....	144,139	72,017	72,122	130,597	72,017	58,580

- <sup>1/</sup> In 1954, all States except Rhode Island required reporting of fetal deaths in pregnancies of 20 or more weeks duration (variously worded, as: "after 5 months;" "advanced to 5th month;" "reached 20 weeks;" "after not less than 20 weeks;" "after at least 20 weeks"). Rhode Island required reporting in 1954 at six completed months or more of pregnancy. For reporting requirements in other years, in each State, see "Vital Statistics of the United States," published annually by the National Office of Vital Statistics.
- <sup>2/</sup> For the unborn infant, the beginning of the perinatal period, referred to here, is coincident with or prior to onset of labor (or other termination of pregnancy). For a relatively small number of fetal deaths in pregnancies of 20 or more weeks, gestational age at death can be expected to be somewhat less than 20 weeks.
- <sup>3/</sup> The perinatal mortality rate to the end of the first month of postnatal life is the number of fetal and of neonatal deaths per 1,000 births (live and still).
- <sup>4/</sup> The fetal mortality rate is the number of deaths before or during birth per 1,000 births (live and still).
- <sup>5/</sup> In 1949 and following years, the neonatal period is defined as under 28 days of postnatal life. Prior to 1949, the neonatal period was under 30 days. The neonatal mortality rate is the number of deaths in the neonatal period per 1,000 live births.
- <sup>6/</sup> The perinatal mortality rate to the end of the first week of postnatal life is the number of fetal deaths and of deaths under one week of age per 1,000 births (live and still).
- <sup>7/</sup> The postnatal mortality rate under one week of age is the number of deaths under 7 days of age per 1,000 live births.

Table 5a. NEONATAL MORTALITY BY AGE: UNITED STATES, 1942-54

Rates are per 1,000 infants alive at the beginning of the period.

Year	Neonatal <sup>1/</sup> (under 1 month)	Under 3 days	Under 1 day	1 day	2 days	3-6 days	7 days- under 1 month
R A T E							
1954	19.1	14.4	9.6	2.9	2.0	2.3	2.4
1953	19.6	14.6	9.7	3.0	2.0	2.5	2.5
1952	19.8	14.8	9.7	3.0	2.1	2.5	2.6
1951	20.0	14.9	9.8	3.1	2.1	2.6	2.6
1950	20.5	15.3	10.2	3.1	2.1	2.6	2.7
1949	21.4	15.7	10.5	3.2	2.1	2.7	3.2
1948	22.2	16.1	10.7	3.4	2.1	2.8	3.4
1947	22.8	16.3	10.7	3.5	2.2	3.0	3.6
1946	24.0	17.1	11.4	3.5	2.2	3.1	4.0
1945	24.3	16.6	11.2	3.4	2.1	3.1	4.7
1944	24.7	16.8	11.5	3.3	2.1	3.2	4.8
1943	24.7	16.9	11.6	3.3	2.1	3.1	4.9
1942	25.7	17.7	12.3	3.3	2.1	3.2	4.9
NUMBER OF DEATHS							
1954	76,724	58,074	38,670	11,618	7,786	9,279	9,371
1953	76,332	57,111	37,676	11,552	7,883	9,673	9,548
1952	76,253	56,927	37,412	11,593	7,922	9,453	9,873
1951	75,192	55,947	36,673	11,544	7,730	9,566	9,679
1950	72,855	54,411	36,075	11,081	7,255	9,006	9,438
1949	76,326	55,797	37,259	11,152	7,386	9,377	11,152
1948	78,426	57,032	37,652	11,916	7,464	9,761	11,633
1947	84,296	60,289	39,716	12,683	7,890	10,996	13,011
1946	79,079	56,104	37,603	11,406	7,095	9,944	13,031
1945	66,593	45,535	30,674	9,129	5,732	8,457	12,601
1944	68,996	47,090	32,052	9,219	5,819	8,680	13,226
1943	72,632	49,530	34,014	9,516	6,000	9,050	14,052
1942	72,122	49,758	34,616	9,230	5,912	8,822	13,542

<sup>1/</sup> In 1949 and following years, neonatal is defined as under 28 days. Prior to 1949, the neonatal period was under 30 days.

Table 6. INFANT MORTALITY BY AGE AND COLOR: UNITED STATES, 1915-54

Rate per 1,000 live births. Data are for States in the Birth Registration Area which was begun in 1915 and has included all States since 1933.

Year	Infant (Under 1 year)			Neonatal (Under 1 month)			Postneonatal (Between 1 month and 1 year)		
	Total	White	Nonwhite	Total	White	Nonwhite	Total	White	Nonwhite
1954	26.6	23.9	42.9	19.1	17.8	27.0	7.5	6.1	15.9
1953	27.8	25.0	44.7	19.6	18.3	27.4	8.2	6.7	17.3
1952	28.4	25.5	47.0	19.8	18.5	28.0	8.6	7.0	19.0
1951	28.4	25.8	44.8	20.0	18.9	27.3	8.4	6.9	17.5
1950	29.2	26.8	44.5	20.5	19.4	27.5	8.7	7.4	17.0
1949	31.3	28.9	47.3	21.4	20.3	28.6	9.9	8.5	18.8
1948	32.0	39.9	46.5	22.2	21.2	29.1	9.8	8.7	17.4
1947	32.2	30.1	48.5	22.8	21.7	31.0	9.4	8.4	17.5
1946	33.8	31.8	49.5	24.0	23.1	31.5	9.8	8.7	17.9
1945	38.3	35.6	57.0	24.3	23.3	32.0	14.0	12.3	25.0
1944	39.8	36.9	60.3	24.7	23.6	32.5	15.1	13.3	27.8
1943	40.4	37.5	62.5	24.7	23.7	32.9	15.7	13.8	29.6
1942	40.4	37.3	64.6	25.7	24.5	34.6	14.7	12.8	30.0
1941	45.3	41.2	74.8	27.7	26.1	39.0	17.6	15.1	35.8
1940	47.0	43.2	73.8	28.8	27.2	39.7	18.2	16.0	34.1
1939	48.0	44.3	74.2	29.3	27.8	39.6	18.7	16.5	34.6
1938	51.0	47.1	79.1	29.6	28.3	39.1	21.4	18.8	40.0
1937	54.4	50.3	83.2	31.3	29.7	42.1	23.1	20.6	41.1
1936	57.1	52.9	87.6	32.6	31.0	43.9	24.5	21.9	43.7
1935	55.7	51.9	83.2	32.4	31.0	42.7	23.3	20.9	40.5
1934	60.1	54.5	94.4	34.1	32.3	45.3	26.0	22.2	49.1
1933	58.1	52.8	91.3	34.0	32.1	45.8	24.1	20.7	45.5
1932	57.6	53.3	86.2	33.5	32.0	43.7	24.1	21.3	42.5
1931	61.6	57.4	93.1	34.6	33.2	45.2	27.0	24.2	47.9
1930	64.6	60.1	99.9	35.7	34.2	47.4	28.9	25.9	52.5
1929	67.6	63.2	102.2	36.9	35.6	47.3	30.7	27.6	54.9
1928	68.7	64.0	106.2	37.2	35.7	48.8	31.5	28.3	57.4
1927	64.6	60.6	100.1	36.1	35.0	46.1	28.5	25.6	54.0
1926	73.3	70.0	111.8	37.9	37.1	48.0	35.4	32.9	63.8
1925	71.7	68.3	110.8	37.8	36.8	49.5	33.9	31.5	61.3
1924	70.8	66.8	112.9	38.6	37.4	51.2	32.2	29.4	61.7
1923	77.1	73.5	117.4	39.5	38.6	49.9	37.6	34.9	67.5
1922	76.2	73.2	110.0	39.7	38.8	49.9	36.5	34.4	60.1
1921	75.6	72.5	108.5	39.7	38.7	50.3	35.9	33.8	58.2
1920	85.8	82.1	131.7	41.5	40.4	55.0	44.3	41.7	76.7
1919	86.6	83.0	130.5	41.5	40.3	55.2	45.1	42.7	75.3
1918	100.9	97.4	161.2	44.2	43.3	60.5	56.7	54.1	100.7
1917	93.8	90.5	150.7	43.4	42.6	58.0	50.4	47.9	92.7
1916	101.0	99.0	184.9	44.1	43.5	68.9	56.9	55.5	116.0
1915	99.9	98.6	181.2	44.4	--	--	55.5	--	--

\* In 1949 and following years, neonatal is defined as under 28 days; postneonatal as 28 days to under one year. Prior to 1949, the neonatal period was under 30 days.

Table 7. - INFANT MORTALITY RATES FOR MAIN CAUSES: UNITED STATES, 1944 AND 1954

Rates are in terms of the Sixth Revision of the International Lists.

Main causes by Sixth Revision	Category numbers		Provisional comparability ratio 1/ ratio 1944 (est.)	Rate per 1,000 live births		Percent change 1944-54
	6th Revision	5th Revision		1944 (est.)	1954	
All causes.....	---	---	---	39.8	26.6	-33.2
Certain diseases of early infancy, total.....	760-76	158-61	1.05	19.9	15.8	-20.6
Immaturity unqualified...	776	159 pt.	.62	7.4	5.4	-27.0
Postnatal asphyxia and atelectasis.....	762	---	---	4.0	4.4	+10.0
With immaturity.....	.5	159 pt.	.22	---	2.9	---
Without immaturity...	.0	161a	1.01	---	1.5	---
Birth injuries.....	760-1	160	.95	3.5	2.8	-20.0
With immaturity.....	.5	---	---	---	1.5	---
Without immaturity...	.0	---	---	---	1.3	---
Other conditions of early infancy.....	763-75	---	---	5.0	3.2	-36.0
With immaturity.....	.5	---	---	---	1.6	---
Without immaturity...	.0	---	---	---	1.6	---
Congenital malformations.....	750-9	157	.95	4.8	3.8	-20.8
Influenza and pneumonia, except pneumonia of newborn	480-93	33,107-9 pt.	.93	4.4	2.1	-52.3
Gastritis, duodenitis, enteritis, and colitis, ex- cept diarrhea of newborn...	543, 571-2	119 pt.	.88	2.4	0.9	-62.5
All other causes.....	---	---	---	8.3	4.0	-51.8

1/ Ratios used to estimate Sixth Revision equivalents for 1944, from actual rates in 1944, according to the Fifth Revision. Ratios are based on 10 percent sample of 1949 and 1950 deaths under 1 year.

Table 8. INFANT MORTALITY RATES BY AGE FOR MAIN CAUSES  
UNITED STATES, 1954

Rates are per 1,000 live births. Numbers after names of causes are category numbers of the Sixth Revision of the International Lists. Exclusive of fetal deaths.

Cause of death	Infant (Under 1 year)	Neonatal (Under 28 days)	Postneonatal (28 days to 1 year)
All causes.....	26.6	19.1	7.5
Certain diseases of early infancy.....760-76	15.8	15.4	0.4
With immaturity (.5).....	11.4	11.2	0.2
Without mention of immaturity (.0).....	4.4	4.2	0.2
Immaturity unqualified.....776	5.4	5.4	0.0
Postnatal asphyxia and atelectasis.....762	4.4	4.3	0.1
With immaturity (.5).....	2.9	2.9	0.0
Without mention of immaturity (.0).....	1.5	1.4	0.1
Birth injuries.....760-1	2.8	2.7	0.1
With immaturity (.5).....	1.5	1.5	0.0
Without mention of immaturity (.0).....	1.3	1.2	0.1
Pneumonia of newborn.....763	0.8	0.8	0
With immaturity (.5).....	0.3	0.3	0
Without mention of immaturity (.0).....	0.5	0.5	0
Hemolytic disease of newborn (erythroblastosis).....770	0.6	0.6	0.0
With immaturity (.5).....	0.1	0.1	0.0
Without mention of immaturity (.0).....	0.5	0.5	0.0
Hemorrhagic disease of newborn.....771	0.2	0.2	0.0
With immaturity (.5).....	0.1	0.1	0.0
Without mention of immaturity (.5).....	0.1	0.1	0.0
Diarrhea of newborn.....764	0.2	0.2	0.0
With immaturity (.5).....	0.1	0.1	0.0
Without mention of immaturity (.0).....	0.1	0.1	0.0
Neonatal disorders arising from maternal toxemia.....769	0.1	0.1	0.0
With immaturity (.5).....	0.0	0.0	0.0
Without mention of immaturity (.0).....	0.1	0.1	0.0
Other and ill-defined diseases peculiar to early infancy, including nutritional maladjustment.....765-8, 772-4	1.3	1.1	0.2
With immaturity (.5).....	1.0	0.9	0.1
Without mention of immaturity (.0).....	0.3	0.2	0.1
Congenital malformations.....750-9	3.8	2.4	1.4
Influenza and pneumonia (exc. pneumonia of newborn).....480-93	2.1	0.0	2.1
All other diseases of respiratory system.....470-5, 500-27	0.6	0.2	0.4
Gastritis, duodenitis, enteritis, and colitis (exc. diarrhea of newborn)..543, 571-2	0.9	0.0	0.9
All infective and parasitic diseases....001-138	0.5	0.1	0.4
Accidental mechanical suffocation in bed or cradle.....E924	0.3	0.0	0.3
All other accidental causes...E800-923, E925-62	0.6	0.1	0.5
Other specified conditions.....Residual	1.3	0.5	0.8
Symptoms and ill-defined conditions.....780-95	0.7	0.4	0.3

Table 9. INFANT DEATHS AND MORTALITY RATE BY COLOR  
UNITED STATES, EACH STATE AND TERRITORY, AND SPECIFIED POSSESSIONS, 1954

(By place of residence)

State	Number of infant deaths			Rate per 1,000 live births		
	Total	White	Nonwhite	Total	White	Nonwhite
United States <u>1/</u>	106,791	82,200	24,591	26.6	23.9	42.9
Alabama.....	2,764	1,345	1,419	33.5	26.5	44.7
Alaska <u>2/</u> .....	247	119	128	35.1	--	--
Arizona.....	1,068	700	368	39.8	30.8	90.3
Arkansas.....	1,153	697	456	26.5	23.1	34.4
California.....	7,250	6,394	856	23.7	23.0	30.1
Colorado.....	1,213	1,151	62	31.2	30.6	48.8
Connecticut.....	1,130	1,024	106	22.4	21.3	44.2
Delaware.....	285	189	96	29.4	23.7	55.3
Dist. of Columbia....	609	268	341	29.0	26.7	31.1
Florida.....	2,642	1,520	1,122	31.1	24.6	48.3
Georgia.....	3,196	1,581	1,615	31.8	24.6	44.8
Hawaii <u>2/</u> .....	363	92	271	22.4	--	--
Idaho.....	407	388	19	23.7	23.0	64.2
Illinois.....	5,432	4,268	1,164	25.0	22.6	40.4
Indiana.....	2,790	2,459	331	25.6	24.3	43.3
Iowa.....	1,347	1,311	36	21.3	21.0	53.4
Kansas.....	1,318	1,202	116	24.6	23.7	43.1
Kentucky.....	2,281	2,005	276	30.4	29.0	46.4
Louisiana.....	2,614	1,180	1,434	30.2	22.6	42.0
Maine.....	564	561	3	24.9	24.9	26.8
Maryland.....	1,804	1,162	642	27.2	22.2	45.6
Massachusetts.....	2,494	2,409	85	23.1	23.0	29.2
Michigan.....	4,792	4,063	729	24.9	23.7	35.1
Minnesota.....	1,768	1,729	39	21.8	21.7	31.7
Mississippi.....	2,369	757	1,612	36.6	26.2	45.1
Missouri.....	2,521	2,008	513	26.9	24.3	46.1
Montana.....	398	338	60	23.0	20.6	64.9
Nebraska.....	782	728	54	23.1	22.3	47.4
Nevada.....	147	113	34	25.1	21.6	55.0
New Hampshire.....	280	280	0	22.8	22.9	0
New Jersey.....	2,778	2,236	542	23.5	21.1	43.9
New Mexico.....	1,090	903	187	42.5	38.8	78.6
New York.....	7,881	6,598	1,283	23.5	21.9	37.7
North Carolina.....	3,465	1,691	1,774	30.2	22.1	46.5
North Dakota.....	425	402	23	24.4	23.7	47.9
Ohio.....	5,575	4,714	861	25.0	23.4	40.5
Oklahoma.....	1,397	1,106	291	27.3	24.5	47.4
Oregon.....	869	834	35	22.5	22.1	35.8
Pennsylvania.....	6,083	5,146	937	24.9	23.1	43.0
Puerto Rico <u>2/</u> .....	4,482	3,948	534	57.6	--	--
Rhode Island.....	416	388	28	23.1	22.1	57.1
South Carolina.....	2,142	845	1,297	32.9	23.1	45.4
South Dakota.....	462	399	63	25.4	23.2	65.8
Tennessee.....	2,598	1,862	736	30.3	27.5	40.5
Texas.....	7,436	6,037	1,399	31.1	29.3	42.5
Utah.....	489	468	21	20.8	20.3	45.3
Vermont.....	233	233	0	25.1	25.1	0
Virgin Islands <u>2/</u> ....	34	6	28	38.7	--	--
Virginia.....	2,920	1,783	1,137	30.7	25.2	46.8
Washington.....	1,515	1,381	134	24.1	23.0	50.6
West Virginia.....	1,317	1,200	117	28.3	27.4	42.9
Wisconsin.....	2,012	1,901	111	21.9	21.3	42.9
Wyoming.....	270	243	27	30.2	28.0	103.1

1/ Exclusive of Alaska, Hawaii, Puerto Rico and Virgin Islands.

2/ By place of occurrence.

Table 10. MATERNAL MORTALITY RATE BY COLOR: UNITED STATES, 1915-54

Data are for States in the Birth Registration Area, which was begun in 1915 and has included all States since 1933.

Year	Rate per 10,000 live births*		
	Total	White	Nonwhite
1954	5.2	3.7	14.4
1953	6.1	4.4	16.6
1952	6.8	4.9	18.8
1951	7.5	5.5	20.1
1950	8.3	6.1	22.2
1949	9.0	6.8	23.5
1948	11.7	8.9	30.1
1947	13.5	10.9	33.5
1946	15.7	13.1	35.9
1945	20.7	17.2	45.5
1944	22.8	18.9	50.6
1943	24.5	21.1	51.0
1942	25.9	22.2	54.4
1941	31.7	26.6	67.8
1940	37.6	32.0	77.3
1939	40.4	35.3	76.2
1938	43.5	37.7	84.9
1937	48.9	43.6	85.8
1936	56.8	51.2	97.2
1935	58.2	53.1	94.6
1934	59.3	54.4	89.7
1933	61.9	56.4	96.7
1932	63.3	58.1	97.6
1931	66.1	60.1	111.4
1930	67.3	60.9	117.4
1929	69.5	63.1	119.9
1928	69.2	62.7	121.0
1927	64.7	59.4	113.3
1926	65.6	61.9	107.1
1925	64.7	60.3	116.2
1924	65.6	60.7	117.9
1923	66.5	62.6	109.5
1922	66.4	62.8	106.8
1921	68.2	64.4	107.7
1920	79.9	76.0	128.1
1919	73.7	69.6	124.4
1918	91.6	88.9	139.3
1917	66.2	63.2	117.7
1916	62.2	60.8	117.9
1915	60.8	60.1	105.6

\* Maternal deaths occurring in 1949-54 were classified by the Sixth Revision of the International Lists. If the data had been classified by the procedures used for 1948 and earlier years, the 1949-54 rates would have been approximately 10% higher.

Table 11. MATERNAL MORTALITY RATES FOR MAIN CAUSES: UNITED STATES, 1944 AND 1954

Rates are in terms of the Sixth Revision of the International Lists.

Main causes by Sixth Revision	Category numbers		Provisional comparability ratio $\frac{1}{\text{---}}$	Rate per 10,000 live births		Percent change 1944-54
	6th Revision	5th Revision		1944 (est.)	1954	
All maternal causes....	640-89	140-50	.91	20.7	5.2	-74.9
Toxemias (except abortion with toxemia).....	642,685-6	144,148	1.05	5.8	1.5	-74.1
Hemorrhage.....	643-4, 670-2	143,146	.87	3.3	1.0	-69.7
Abortion (including abortion with toxemia or sepsis)....	650-2	140-1	.87	3.1	0.7	-77.4
Sepsis (except abortion with sepsis).....	640-1, 681-2, 684	145a, 147	.72	3.9	0.6	-84.6
Ectopic pregnancy.....	645	142	1.00	1.2	0.4	-66.7
Other causes.....	646-8, 660, 673-8, 680, 683, 687-9	145b, 149-50	---	3.4	1.0	-70.6

$\frac{1}{\text{---}}$  Ratios used to estimate Sixth Revision equivalents for 1942, from actual rates in 1942, according to the Fifth Revision. Ratios for all maternal causes and for abortion are based on 10 percent sample of 1949 and 1950 deaths; other ratios are based on 10 percent sample of 1949 deaths.

Table 12. MATERNAL DEATHS AND AVERAGE MORTALITY RATE BY COLOR  
UNITED STATES, EACH STATE AND TERRITORY, AND SPECIFIED POSSESSIONS, 1953-54

(By place of residence)

State	Number of maternal deaths			Average rate per 10,000 live births		
	Total	White	Nonwhite	Total	White	Nonwhite
United States <u>1/</u>	4,490	2,759	1,731	5.7	4.1	15.5
Alabama.....	219	62	157	13.3	6.1	24.7
Alaska <u>2/</u> .....	8	--	--	5.8	--	--
Arizona.....	28	17	11	5.3	3.8	13.8
Arkansas.....	74	31	43	8.6	5.1	16.6
California.....	233	196	37	3.9	3.6	6.8
Colorado.....	35	32	3	4.6	4.3	12.4
Connecticut.....	32	30	2	3.2	3.2	4.4
Delaware.....	9	4	5	4.8	2.6	15.1
Dist. of Columbia.....	21	5	16	5.0	2.4	7.5
Florida.....	118	38	80	7.1	3.2	17.7
Georgia.....	217	71	146	10.9	5.6	20.3
Hawaii <u>2/</u> .....	12	--	--	3.7	--	--
Idaho.....	13	13	0	3.8	3.9	0
Illinois.....	164	122	42	3.9	3.3	7.7
Indiana.....	82	70	12	3.8	3.5	8.1
Iowa.....	53	51	2	4.2	4.1	14.2
Kansas.....	51	43	8	4.8	4.3	15.5
Kentucky.....	115	96	19	7.8	7.0	16.3
Louisiana.....	137	44	93	8.0	4.2	13.8
Maine.....	19	17	2	4.3	3.8	99.0
Maryland.....	59	33	26	4.6	3.2	9.5
Massachusetts.....	69	67	2	3.2	3.2	3.6
Michigan.....	170	119	51	4.5	3.5	13.0
Minnesota.....	50	49	1	3.1	3.1	4.3
Mississippi.....	223	35	188	17.3	6.1	26.2
Missouri.....	104	79	25	5.6	4.8	11.7
Montana.....	8	7	1	2.4	2.2	5.8
Nebraska.....	32	31	1	4.8	4.8	4.7
Nevada.....	4	2	2	3.6	2.0	17.6
New Hampshire.....	12	12	0	5.0	5.0	0
New Jersey.....	104	70	34	4.5	3.4	14.4
New Mexico.....	48	36	12	9.5	7.8	26.1
New York.....	313	216	97	4.7	3.6	14.8
North Carolina.....	191	72	119	8.4	4.8	15.7
North Dakota.....	16	14	2	4.6	4.2	21.8
Ohio.....	190	152	38	4.4	3.9	9.3
Oklahoma.....	67	36	31	6.5	4.0	25.1
Oregon.....	23	22	1	2.9	2.9	5.1
Pennsylvania.....	233	181	52	4.8	4.1	12.4
Puerto Rico <u>2/</u> .....	238	--	--	15.3	--	--
Rhode Island.....	17	14	3	4.8	4.1	30.9
South Carolina.....	141	38	103	11.0	5.3	18.3
South Dakota.....	13	13	0	3.6	3.8	0
Tennessee.....	125	73	52	7.4	5.5	14.7
Texas.....	341	224	117	7.2	5.5	18.2
Utah.....	10	10	0	2.1	2.1	0
Vermont.....	3	3	0	1.6	1.6	0
Virgin Islands <u>2/</u> .....	1	--	--	5.7	--	--
Virginia.....	129	55	74	6.9	3.9	15.6
Washington.....	47	38	9	3.8	3.2	18.0
West Virginia.....	50	43	7	5.4	4.9	12.3
Wisconsin.....	73	68	5	4.0	3.9	10.1
Wyoming.....	5	5	0	2.8	2.9	0

1/ Exclusive of Alaska, Hawaii, Puerto Rico and Virgin Islands.

2/ By place of occurrence.

Table 13. CHILDHOOD MORTALITY RATE BY AGE: UNITED STATES, 1900-54

Rates are deaths per 10,000 children of specified ages. Data are for States in the Death Registration Area, which was begun in 1900 and has included all States since 1933.

Year	1-14 years	1-4 years	5-14 years	Year	1-14 years	1-4 years	5-14 years
1954	7.3*	11.8*	5.0*	1924	34.4	68.3	20.1
1953	8.0	13.0	5.5	1923	39.1	80.7	21.5
1952	8.7	14.1	5.9	1922	37.1	74.2	21.4
1951	8.7	13.7	5.9	1921	41.1	80.1	24.7
1950	8.8	13.9	6.0	1920	47.9	98.7	26.4
1949	9.5	15.0	6.6	1919	46.7	92.8	26.9
1948	9.9	16.0	6.8	1918	76.5	157.4	41.3
1947	10.0	16.1	7.1	1917	50.3	106.6	25.6
1946	11.5	18.2	8.2	1916	51.1	111.2	24.5
1945	12.7	20.3	9.0	1915	44.3	92.4	23.0
1944	13.8	23.3	9.4	1914	49.7	104.2	25.4
1943	14.5	25.6	9.7	1913	55.9	120.8	27.0
1942	13.5	24.3	9.1	1912	51.4	110.9	24.8
1941	15.0	28.0	9.9	1911	55.5	119.5	27.0
1940	15.5	28.9	10.4	1910	63.3	139.7	29.4
1939	16.6	31.8	10.9	1909	60.9	134.9	28.2
1938	19.0	38.4	12.1	1908	63.8	139.7	30.3
1937	20.9	41.9	13.5	1907	67.1	146.8	31.7
1936	22.3	44.0	14.8	1906	71.0	158.0	32.7
1935	22.7	44.1	15.3	1905	69.3	149.9	34.0
1934	24.6	50.8	15.3	1904	73.9	159.2	36.7
1933	23.5	47.3	15.0	1903	70.7	154.2	34.4
1932	23.6	46.2	15.4	1902	73.1	165.6	33.1
1931	26.3	52.7	16.6	1901	75.8	169.5	35.4
1930	27.8	56.4	17.2	1900	86.6	198.4	38.6
1929	31.0	62.6	18.7				
1928	32.4	64.8	19.4				
1927	30.4	59.1	18.9				
1926	34.8	72.3	19.3				
1925	32.8	64.1	19.7				

\* In 1954 the rate for white children of ages 1-14 years was 6.6 and the corresponding rate for nonwhite children was 11.4. For ages 1-4 the white and nonwhite rates were 10.5 and 20.3, while for ages 5-14 the white and nonwhite rates were 4.8 and 6.8, respectively.

Table 14. CHILDHOOD MORTALITY RATES FOR MAIN CAUSES: UNITED STATES, 1944 AND 1954

Rates are in terms of the Sixth Revision of the International Lists.

Main causes by Sixth Revision	Category numbers		Provisional comparability ratio 1/ ---	Rate per 100,000 children 1-14 years of age		Percent change 1944-54
	6th Revision	5th Revision		1944 (est.)	1954	
All causes.....	---	---	---	138.1	72.5	-47.5
Accidents.....	E800-962	169-95	1.00	37.2	24.7	-33.6
Motor-vehicle accidents.....	E810-35	170	1.00	10.1	9.0	-10.9
Other accidents.....	E800-2, E840-962	169, 171-95	1.00	27.1	15.7	-42.1
Malignant neoplasms.....	140-205	45-55, 74	1.00	6.4	8.2	+28.1
Leukemias.....	204	74	1.00	3.0	3.9	+30.0
Other malignant neoplasms..	140-203, 205	45-55	1.00	3.4	4.3	+26.5
Influenza and pneumonia.....	480-93	33, 107-9	0.89	17.1	6.9	-59.6
Congenital malformations.....	750-9	157	0.92	4.7	5.9	+25.5
Diseases of the heart and rheumatic fever.....	400-2, 410-43	58, 90-5	---	6.8	1.9	-72.1
Diseases of the heart.....	410-43	90-5	0.77	4.1	1.0	-75.6
Rheumatic fever.....	400-2	58	1.60	2.7	0.9	-66.7
Gastritis, duodenitis, enteritis, colitis.....	543, 571, 572	119, 120	1.00	5.4	1.5	-72.2
Poliomyelitis.....	080	36	1.00	2.2	1.3	-40.9
Meningococcal infections.....	057	6	1.00	2.8	1.2	-57.2
All other causes.....	---	---	---	55.5	20.9	-62.4

1/ Ratios used to estimate Sixth Revision equivalents for 1944, from actual rates in 1944, according to the Fifth Revision. They are based on 10 percent samples of deaths as follows: influenza and pneumonia, 1950 deaths at all ages; congenital malformations, 1949 deaths at ages 1-14 years; diseases of the heart and rheumatic fever, 1951 deaths at ages 1-14 years; other causes listed, 1949 and 1950 deaths at all ages. Values between 0.97 and 1.03 have been rounded to 1.00.

Table 15. MAIN CAUSES OF MORTALITY DUE TO ACCIDENTS AMONG CHILDREN  
UNDER 20 YEARS BY AGE, UNITED STATES, 1954

Cause of accident	Rate per 100,000 population of specified age			
	Under 1 year	1-4 years	5-14 years	15-19 years
All causes (E800-E962).....	69.6	33.6	20.3	49.9
Motor vehicle (E810-E835).....	8.4	11.0	8.0	30.9
Water transport (E850-E858).....	--	--	--	1.3
Poisoning (E870-E895).....	1.9	2.6	--	--
Falls (E900-E904).....	4.9	1.8	0.7	--
Fire, explosions and burns (E916-E918).....	8.9	8.0	2.3	1.2
Firearms (E919).....	--	--	1.5	3.3
Inhalation and ingestion of objects (E921,E922)	28.2	--	--	--
Drowning (E929).....	--	4.2	4.1	6.2
All other.....	17.3	6.0	3.7	7.0

1/ Excludes 1,124 deaths from accidental mechanical suffocation in bed or cradle (E924).

## REFERENCES

- Eastman, Nicholson J.: Perinatal Mortality in General: Injuries Sustained by the Infant in Pregnancy and Labor. [In] Williams Obstetrics. Eleventh Edition. New York: Appleton-Century-Crofts, Inc., 1956. 1212 pp. (p. 1016-1018).
- National Office of Vital Statistics, U. S. Department of Health, Education, and Welfare: Vital Statistics of the United States, 1954, Vol. 1. Washington, D. C., U. S. Government Printing Office, 1956. 358 pp.
- National Office of Vital Statistics, U. S. Department of Health, Education, and Welfare: National Summaries: Natality, United States, and Each State, and Alaska, Hawaii, Puerto Rico, and the Virgin Islands (U.S.) 1954, Vol. 44, No. 3, May 31, 1956, 47-66.
- National Office of Vital Statistics, U. S. Department of Health, Education, and Welfare: National Summaries: Fetal Deaths, Each State and Territory, and Specified Possessions, 1953, Vol. 42, No. 16, January 6, 1956, 344-357.
- National Office of Vital Statistics, U. S. Department of Health, Education, and Welfare: National Summaries: Fetal Deaths, United States and Each State, and Alaska, Hawaii, Puerto Rico, and the Virgin Islands (U.S.), 1954, Vol. 44, No. 11, August 17, 1956, 226-239.
- National Office of Vital Statistics, U. S. Department of Health, Education, and Welfare: National Summaries: Mortality From Selected Causes by Age, Race, and Sex, United States, 1954, Vol. 44, No. 12, September 14, 1956, 243-291.
- National Office of Vital Statistics, U. S. Department of Health, Education, and Welfare: National Summaries: Infant Mortality, United States and Each State, and Alaska, Hawaii, Puerto Rico, and the Virgin Islands (U.S.), 1954, Vol. 44, No. 13, September 17, 1956, 294-312.

National Office of Vital Statistics, U. S. Department of Health, Education, and Welfare: National Summaries: Maternal Mortality, United States and Each State, and Alaska, Hawaii, Puerto Rico, and the Virgin Islands (U. S.), 1954, Vol. 44, No. 14, September 18, 1956, 314-324.

National Office of Vital Statistics, U. S. Department of Health, Education, and Welfare: National Summaries: Accident Fatalities, United States and Each State, 1954, Vol. 44, No. 16, October 5, 1956, 359-387.